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NASA SP-7039(12)
Section 2
Indexes

NASA PATENT ABSTRACTS BIBLIOGRAPHY

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Section 2 • Indexes

JANUARY 1978

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

ACCESSION NUMBER RANGES

Bibliography Number	*STAR Accession Numbers*
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NASA

PATENT ABSTRACTS BIBLIOGRAPHY

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Section 2 • Indexes

Indexes for the annotated references to NASA-owned inventions covered by U.S. patents and applications for patent that were announced in *Scientific and Technical Aerospace Reports (STAR)* between May 1969 and December 1977 This issue supersedes all previous Index Sections

Scientific and Technical Information Office JANUARY 1978
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
Washington, D C

This Supplement is available from the National Technical Information Service (NTIS), Springfield, Virginia 22161, at price code E06 ($10 50 domestic, $21 00 foreign)

INTRODUCTION

Several thousand inventions result each year from the aeronautical and space research supported by the National Aeronautics and Space Administration The inventions having important use in government programs or significant commercial potential are usually patented by NASA These inventions cover practically all fields of technology and include many that have useful and valuable commercial application

NASA inventions best serve the interests of the United States when their benefits are available to the public In many instances, the granting of nonexclusive or exclusive licenses for the practice of these inventions may assist in the accomplishment of this objective This bibliography is published as a service to companies, firms, and individuals seeking new, licensable products for the commercial market

The *NASA Patent Abstracts Bibliography (NASA PAB)* is a semiannual NASA publication containing comprehensive abstracts and indexes of NASA-owned inventions covered by U S patents and applications for patent The citations included in *NASA PAB* were originally published in NASA's *Scientific and Technical Aerospace Reports (STAR)* and cover *STAR* announcements made since May 1969

For the convenience of the user, each issue of *NASA PAB* has a separately bound Abstract Section (Section 1) and Index Section (Section 2) Unlike the most recently published issues of *PAB*, the Abstract Section for this issue covers the years 1974 through 1977 To provide a more convenient abstract arrangement, those items originally appearing under the old category scheme were adapted to the revised version which began in 1975 Thus all items will appear in the Abstract Section in numeric sequence under the currently used categories The Index Section continues to be cumulative, covering all NASA-owned inventions announced in *STAR* since May 1969

The 1091 citations published in this issue of the Abstract Section cover the period January 1974 through December 1977 The Index Section contains references to the 3292 citations covering the period May 1969 through December 1977

ABSTRACT SECTION (SECTION 1)

This *PAB* issue incorporates the 1975 *STAR* category revisions which include 10 major subdivisions divided into 74 specific categories and one general category/division (See Table of Contents for the scope note of each category under which are grouped appropriate NASA inventions) This new scheme was devised in lieu of the 34 category divisions which were utilized in *PAB* supplements (01) through (06) covering *STAR* abstracts from May 1969 through January 1974 Each entry in the Abstract Section consists of a *STAR* citation accompanied by an abstract and a key illustration taken from the patent or application for patent drawing Entries are arranged in subject category in order of the ascending NASA Accession Number originally assigned in *STAR* to the invention The range of NASA Accession Numbers within each issue is printed on the inside front cover

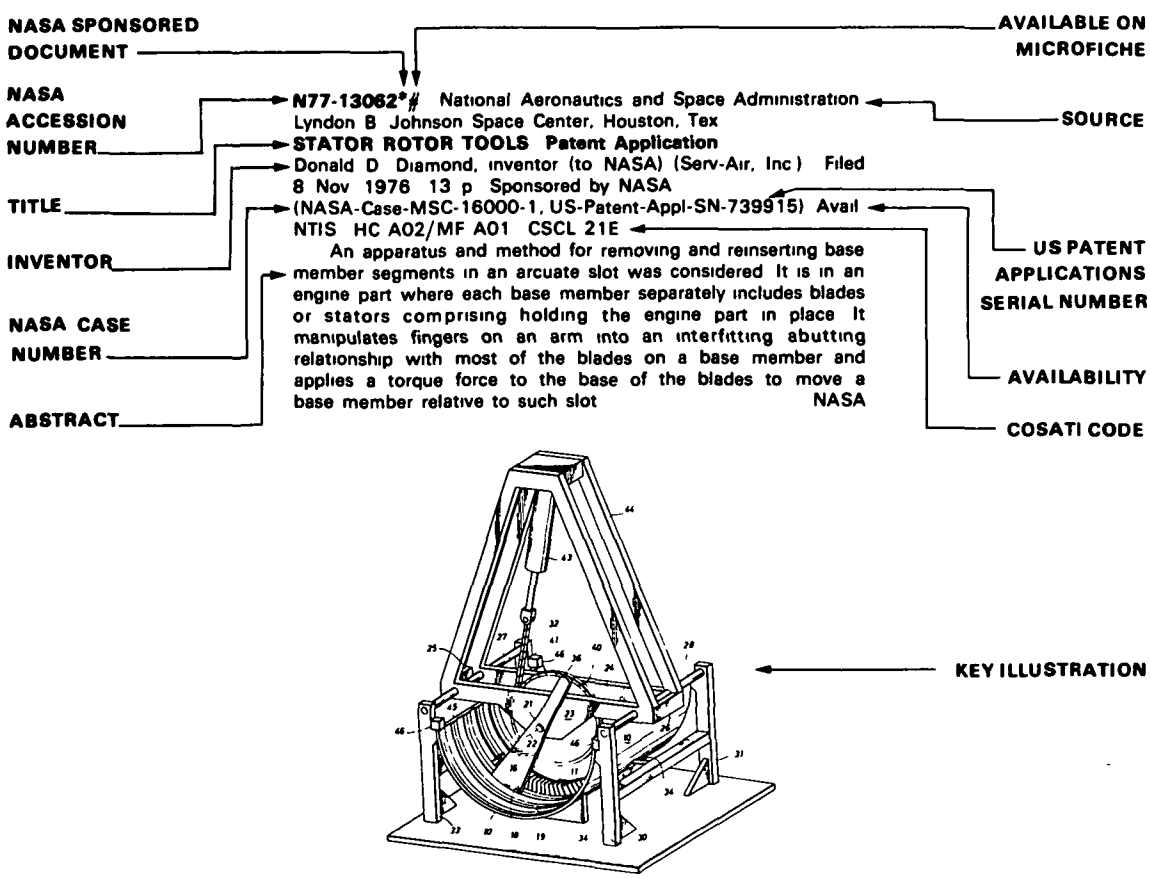
Abstract Citation Data Elements Each of the abstract citations has several data elements useful for identification and indexing purposes, as follows

- NASA Accession Number
- NASA Case Number
- Inventor's Name

Title of Invention
U S Patent Application Serial Number
U S Patent Number (for issued patents only)
U S Patent Office Classification Number(s)
(for issued patents only)

These data elements appear in the citation of the abstract as depicted in the Typical Citation and Abstract reproduced below and are also used in the several indexes

TYPICAL CITATION AND ABSTRACT



INDEX SECTION (SECTION 2)

The Index Section is divided into five indexes which are cross-indexed and are useful in locating a single invention or groups of inventions

Each of the five indexes utilizes basic data elements (1) Subject Category Number, (2) NASA Accession Number, and (3) NASA Case Number, in addition to other specific index terms

Subject Index· Lists all inventions according to appropriate alphabetized technical term and indicates the related NASA Case Number, the Subject Category Number, and the NASA Accession Number

Inventor Index: Lists all inventions according to alphabetized names of inventors and indicates the related NASA Case Number, the Subject Category Number, and the NASA Accession Number

Source Index: Lists all inventions according to alphabetized source of invention (i e , name of contractor or government installation where invention was made) and indicates the related NASA Case Number, the Subject Category Number, and the NASA Accession Number

Number Index. Lists inventions in order of ascending (1) NASA Case Number, (2) U S Patent Application Serial Number, (3) U S Patent Classification Number, and (4) U S Patent Number and indicates the related Subject Category Number and the NASA Accession Number

Accession Number Index: Lists all inventions in order of ascending NASA Accession Number and indicates the related Subject Category Number, the NASA Case Number, the U S Patent Application Serial Number, the U S Patent Classification Number, and the U S Patent Number

HOW TO USE THIS PUBLICATION TO IDENTIFY NASA INVENTIONS

To identify one or more NASA inventions within a specific technical field or subject, several techniques are possible when using the flexibility incorporated into the *NASA PAB* ·

(1) *Using Subject Category* To identify all NASA inventions in any one of the subject categories in this issue of *NASA PAB*, select the desired Subject Category in the Abstract Section (Section 1) and find the inventions abstracted thereunder

(2) *Using Subject Index* To identify all NASA inventions listed under a desired technical subject index term, (A) turn to the cumulative Subject Index in the Index Section and find the invention(s) listed under the desired technical subject term (B) Note the indicated Accession Number and the Subject Category Number (C) Using the indicated Accession Number, turn to the inside front cover of the Index Section to determine which issue of the Abstract Section includes the Accession Number desired (D) To find the abstract of the particular invention in the issue of the Abstract Section selected, (i) use the Subject Category Number to locate the Subject Category and (ii) use the Accession Number to locate the desired invention within the Subject Category listing

(3) *Using Patent Classification Index* To identify all inventions covered by issued NASA patents (does not include applications for patent) within a desired Patent Office Classification, (A) turn to the Patent Classification Number in the Number Index of Section 2 and find the associated inventions(s), and (B) follow the instructions outlined in (2)(B), and (D) above

PUBLIC AVAILABILITY OF COPIES OF PATENTS AND PATENT APPLICATIONS

Copies of U S patents may be purchased directly from the U S Patent Office, Washington, D C 20231, for fifty cents a copy When ordering patents, the U S Patent Number should be used, and payment must be remitted in advance, preferably by money order or check payable to the Commissioner of Patents Prepaid purchase coupons for ordering are also available from the Patent Office

NASA *patent application specifications* are sold in paper copy by the National Technical Information Service at price code A02 ($4 00 domestic, $8 00 foreign) Microfiche are sold at price code A01 ($3 00 domestic, $4 50 foreign) The US-Patent-Appl-SN-number should be used in ordering either paper copy or microfiche from NTIS

LICENSES FOR COMMERCIAL USE· INQUIRIES AND APPLICATIONS FOR LICENSE

NASA inventions, abstracted in *NASA PAB*, are available for nonexclusive or exclusive licensing in accordance with the NASA Patent Licensing Regulations It is significant that all licenses for NASA inventions shall be by express written instruments and that no license will be granted or implied in a NASA invention except as provided in the NASA Patent Licensing Regulations

Inquiries concerning the NASA Patent Licensing Program or the availability of licenses for the commercial use of NASA-owned inventions covered by U S patents or pending applications for patent should be forwarded to the NASA Patent Counsel of the NASA installation having cognizance of the specific invention, or the Assistant General Counsel for Patent Matters, Code GP-4, National Aeronautics and Space Administration, Washington, D C 20546 Inquiries should refer to the NASA Case Number, the Title of the Invention, and the U S Patent Number or the U S Application Serial Number assigned to the invention as shown in *NASA PAB*

The NASA Patent Counsel having cognizance of the invention is determined by the first three letters or prefix of the NASA Case Number assigned to the invention The addresses of NASA Patent Counsels are listed alongside the NASA Case Number prefix letters in the following table Formal application of license must be submitted on the NASA Form, Application for NASA Patent License, which is available upon request from any NASA Patent Counsel

NASA Case Number Prefix Letters	Address of Cognizant NASA Patent Counsel
ARC-xxxxx XAR-xxxxx	Ames Research Center Mail Code 200-11A Moffett Field, California 94035 Telephone (415)965-5104
ERC-xxxxx XER-xxxxx HQN-xxxxx XHQ-xxxxx	NASA Headquarters Mail Code GP-4 Washington, D C 20546 Telephone (202)755-3954
GSC-xxxxx XGS-xxxxx	Goddard Space Flight Center Mail Code 204 Greenbelt, Maryland 20771 Telephone (301)982-2351
KSC-xxxxx XKS-xxxxx	John F Kennedy Space Center Mail Code AA-PAT Kennedy Space Center, Florida 32899 Telephone (305)867-2544
LAR-xxxxx XLA-xxxxx	Langley Research Center Mail Code 456 Langley Station Hampton, Virginia 23365 Telephone (804)827-3725
LEW-xxxxx XLE-xxxxx	Lewis Research Center Mail Code 500-311 21000 Brookpark Road Cleveland, Ohio 44135 Telephone (216)433-6346
MSC-xxxxx XMS-xxxxx	Lyndon B Johnson Space Center Mail Code AM Houston, Texas 77058 Telephone (713)483-4871
MFS-xxxxx XMF-xxxxx	George C Marshall Space Flight Center Mail Code CC01 Huntsville, Alabama 35812 Telephone (205)453-0020
NPO-xxxxx XNP-xxxxx FRC-xxxxx XFR-xxxxx WOO-xxxxx	NASA Resident Legal Office Mail Code 180-601 4800 Oak Grove Drive Pasadena, California 91103 Telephone (213)354-2700

PATENT LICENSING REGULATIONS

Title 14—AERONAUTICS AND SPACE

Chapter V—National Aeronautics and Space Administration

PART 1245—PATENTS

Subpart 2—Patent Licensing Regulations

1. Subpart 2 is revised in its entirety as follows:

Sec.

1245.200 Scope of subpart.
1245.201 Definitions.
1245.202 Basic considerations
1245.203 Licenses for practical application of inventions.
1245.204 Other licenses.
1245.205 Publication of NASA inventions available for license.
1245 206 Application for nonexclusive license.
1245 207 Applicarion for exclusive license.
1245.208 Processing applications for license.
1245.209 Royalties and fees.
1245.210 Reports
1245.211 Revocation of licenses.
1245.212 Appeals
1245 213 Litigation.
1245 214 Address of communications.

AUTHORITY The provisions of this Subpart 2 issued under 42 U.S C. 2457, 2473(b)(3).

§ 1245.200 Scope of subpart.

This Subpart 2 prescribes the terms, conditions, and procedures for licensing inventions covered by U S. patents and patent applications for which the Administrator of the National Aeronautics and Space Administration holds title on behalf of the United States.

§ 1245.201 Definitions.

For the purpose of this subpart, the following definitions apply:

(a) "Invention" means an invention covered by a U.S. patent or patent application for which the Administrator of NASA holds title on behalf of the United States and which is designated by the Administration as appropriate for the grant of license(s) in accordance with this subpart.

(b) "To practice an invention" means to make or have made, use or have used, sell or have sold, or otherwise dispose of according to law any machine, article of manufacture or composition of matter physically embodying the invention, or to use or have used the process or method comprising the invention

(c) "Practical application" means the manufacture in the case of a composition of matter or product, the use in the case of a process, or the operation in the case of a machine, under such conditions as to establish that the invention is being utilized and that its benefits are reasonably accessible to the public.

(d) "Special invention" means any invention designated by the NASA Assistant General Counsel for Patent Matters to be subject to short-form licensing procedures. An invention may be designated as a special invention when a determination is made that:

(1) Practical application has occurred and is likely to continue for the life of the patent and for which an exclusive license is not in force, or

(2) The public interest would be served by the expeditious granting of a nonexclusive license for practice of the invention by the public.

(e) The "Administrator" means the Administrator of the National Aeronautics and Space Administration, or his designee.

(f) "Government" means the Government of the United States of America.

(g) The "Inventions and Contributions Board" means the NASA Inventions and Contributions Board established by the Administrator of NASA within the Administration in accordance with section 305 of the National Aeronautics and Space Act of 1958 as amended (42 U S C 2457)

§ 1245.202 Basic considerations.

(a) Much of the new technology resulting from NASA sponsored research and development in aeronautical and space activities has application in other fields. NASA has special authority and responsibility under the National Aeronautics and Space Act of 1958, as amended (42 U S C 2451), to provide for the widest practical dissemination and utilization of this new technology. In addition, NASA has been given unique requirements to protect the inventions resulting from NASA activities and to promulgate licensing regulations to encourage commercial use of these inventions.

(b) NASA-owned inventions will best serve the interests of the United States when they are brought to practical application in the shortest time possible. Although NASA encourages the nonexclusive licensing of its inventions to promote competition and achieve their widest possible utilization, the commercial development of certain inventions calls for a substantial capital investment which private manufacturers may be unwilling to risk under a nonexclusive license It is the policy of NASA to seek exclusive licensees when such licenses will provide the necessary incentive to the licensee to achieve early practical application of the invention.

(c) The Administrator, in determining whether to grant an exclusive license, will evaluate all relevant information submitted by applicants and all other persons and will consider the necessity for further technical and market development of the invention, the capabilities of prospective licensees, their proposed plans to undertake the required investment and development, the impact on competitors, and the benefits of the license to the Government and to the public Preference for exclusive license shall be given to U.S. citizens or companies who intend to manufacture or use, in the case of a process, the invention in the United States of America, its territories and possessions. Consideration may also be given to assisting small businesses and minority business enterprises, as well as economically depressed, low income and labor surplus areas.

(d) All licenses for inventions shall be by express written instruments. No license shall be granted either expressly or by implication, for a NASA invention except as provided for in §§ 1245 203 and 1245 204 and in any existing or future treaty or agreement between the United States and any foreign government.

(e) Licenses for inventions covered by NASA-owned foreign patents and patent applications shall be granted in accordance with the NASA Foreign Patent Licensing Regulations (§ 1245 4).

§ 1245.203 Licenses for practical application of inventions.

(a) *General* As an incentive to encourage practical application of inventions, licenses will be granted to responsible applicants according to the circumstances and conditions set forth in this section.

(b) *Nonexclusive licenses* (1) Each invention will be made available to responsible applicants for nonexclusive, revocable licensing in accordance with § 1245 206, consistent with the provisions of any existing exclusive license.

(2) The duration of the license shall be for a period as specified in the license.

(3) The license shall require the licensee to achieve the practical application of the invention and to then practice the invention for the duration of the license.

(4) The license may be granted for all or less than all fields of use of the invention and throughout the United States of America, its territories and possessions, Puerto Rico, and the District of Columbia, or in any lesser geographic portion thereof.

(5) The license shall extend to the subsidiaries and affiliates of the licensee and shall be nonassignable without approval of the Administrator, NASA, except to the successor of that part of the licensee's business to which the invention pertains.

(c) *Short-form nonexclusive licenses.* A nonexclusive, revocable license for a special invention, as defined in § 1245.201 (d), shall be granted upon written request, to any applicant by the Patent Counsel of the NASA installation having cognizance of the invention.

(d) *Exclusive licenses.* (1) A limited exclusive license may be granted on an invention available for such licensing provided that:

(i) The Administrator has determined that: (*a*) The invention has not been brought to practical application by a nonexclusive licensee in the fields of use or in the geographical locations covered by the application for the exclusive license, (*b*) practical application of the invention in the fields of use or geographical locations covered by the application for the exclusive license is not likely to be achieved expeditiously by the further funding of the invention by the Government or under a nonexclusive license requested by any applicant pursuant to these regulations, and (*c*) the exclusive license will provide the necessary incentive to the licensee to achieve the practical application of the invention; and

(ii) Either a notice pursuant to

§ 1245 205 listing the invention as available for licensing has been published in the FEDERAL REGISTER for at least 9 months, or a patent covering the invention has been issued for at least 6 months However, a limited exclusive license may be granted prior to the periods specified above if the Administrator determines that the public interest will best be served by the earlier grant of an exclusive license.

(2) The license may be granted for all or less than all fields of use of the invention, and throughout the United States of America, its territories and possessions, Puerto Rico, and the District of Columbia, or in any lesser geographic portion thereof

(3) The exclusive period of the license shall be negotiated, but shall be for less than the terminal portion of the patent, and shall be related to the period necessary to provide a reasonable incentive to invest the necessary risk capital.

(4) The license shall require the licensee to practice the invention within a period specified in the license and then to achieve practical application of the invention.

(5) The license shall require the licensee to expend a specified minimum sum of money and/or to take other specified actions, within indicated period(s) after the effective date of the license, in an effort to achieve practical application of the invention

(6) The license shall be subject to at least an irrevocable royalty-free right of the Government of the United States to practice and have practiced the invention throughout the world by or on behalf of the Government of the United States and on behalf of any foreign government pursuant to any existing or future treaty or agreement with the United States.

(7) The license may reserve to the Administrator, NASA, under the following circumstances, the right to require the granting of a sublicense to responsible applicant(s) on terms that are considered reasonable by the Administrator, taking into consideration the current royalty rates under similar patents and other pertinent facts: (i) To the extent that the invention is required for public use by Government regulation, or (ii) as may be necessary to fulfill health or safety needs, or (iii) for other purposes stipulated in the license.

(8) The license shall be nontransferable except to the successor of that part of the licensee's business to which the invention pertains.

(9) Subject to the approval of the Administrator, the licensee may grant sublicenses under the license Each sublicense granted by an exclusive licensee shall make reference to and shall provide that the sublicense is subject to the terms of the exclusive license including the rights retained by the Government under the exclusive license A copy of each sublicense shall be furnished to the Administrator.

(10) The license may be subject to such other reservations as may be in the public interest.

§ 1245.204 Other licenses.

(a) *License to contractor.* There is hereby granted to the contractor reporting an invention made in the performance of work under a contract of NASA in the manner specified in section 305(a) (1) or (2) of the National Aeronautics and Space Act of 1958 as amended (42 U.S.C 2457(a) (1) or (2)), a revocable, nonexclusive, royalty-free license for the practice of such invention, together with the right to grant sublicenses of the same scope to the extent the contractor was legally obligated to do so at the time the contract was awarded Such license and right is nontransferable except to the successor of that part of the contractor's business to which the invention pertains

(b) *Miscellaneous licenses* Subject to any outstanding licenses, nothing in this subpart 2 shall preclude the Administrator from granting other licenses for inventions, when he determines that do so would provide for an equitable distribution of rights The following exemplify circumstances wherein such licenses may be granted

(1) In consideration of the settlement of an interference;

(2) In consideration of a release of a claim of infringement; or

(3) In exchange for or as part of the consideration for a license under adversely held patent(s).

§ 1245.205 Publication of NASA inventions available for license.

(a) A notice will be perodically published in the FEDERAL REGISTER listing inventions available for licensing. Abstracts of the inventions will also be published in the NASA Scientific and Technical Aerospace Reports (STAR) and other NASA publications.

(b) Copies of pending patent applications for inventions abstracted in STAR may be purchased from the National Technical Information Service, Springfield, Va 22151.

§ 1245.206 Application for nonexclusive license.

(a) *Submission of application.* An application for nonexclusive license under § 1245 203(b) or a short-form nonexclusive license for special inventions under § 1245.203(c) shall be addressed to the NASA Patent Counsel of the NASA installation having cognizance over the NASA invention for which a license is desired or to the NASA Assistant General Counsel for Patent Matters.

(b) *Contents of an application for nonexclusive license* An application for nonexclusive license under § 1245.203(b) shall include.

(1) Identification of invention for which license is desired, including the NASA patent case number, patent application serial number of patent number, title and date, if known;

(2) Name and address of the person, company or organization applying for license and whether the applicant is a U S. citizen or a U S. corporation;

(3) Name and address of representative of applicant to whom correspondence should be sent;

(4) Nature and type of applicant's business,

(5) Number of employees;

(6) Purpose for which license is desired;

(7) A statement that contains the applicant's best knowledge of the extent to which the invention is being practiced by private industry and the Government,

(8) A description of applicant's capability and plan to undertake the development and marketing required to achieve the practical application of the invention, including the geographical location where the applicant plans to manufacture or use, in the case of a process, the invention; and

(9) A statement indicating the minimum term of years the applicant desires to be licensed.

(c) *Contents of an application for a short-form nonexclusive license* An application for a short-form nonexclusive license under § 1245.203(c) for a special invention shall include:

(1) Identification of invention for which license is desired, including the NASA patent case number, patent application serial number or patent number, title and date, if known;

(2) Name and address of company or organization applying for license; and

(3) Name and address of representative of applicant to whom correspondence should be sent.

§ 1245.207 Application for exclusive license.

(a) *Submission of application* An application for exclusive license under § 1245 203(d) may be submitted to NASA at any time An application for exclusive license shall be addressed to the NASA Assistant General Counsel for Patent Matters

(b) *Contents of an application for exclusive license.* In addition to the requirements set forth in § 1245 206(b), the application for an exclusive license shall include:

(1) Applicant's status, if any, in any one or more of the following categories:

(i) Small business firm;

(ii) Minority business enterprise;

(iii) Location in a surplus labor area;

(iv) Location in a low-income urban area; and

(v) Location in an area designed by the Government as economically depressed.

(2) A statement indicating the time, expenditure, and other acts which the applicant considers necessary to achieve practical application of the invention, and the applicant's offer to invest that sum and to perform such acts if the license is granted,

(3) A statement whether the applicant would be willing to accept a license for all or less than all fields of use of the invention throughout the United States of America, its territories and possessions, Puerto Rico, and the District of Columbia, or in any lesser geographic portion thereof.

(4) A statement indicating the amount of royalty fees or other consideration, if any, the applicant would be willing to pay the Government for the exclusive license; and

(5) Any other facts which the applicant believes to show it to be in the interests of the United States of America for the Administrator to grant an exclusive license rather than a nonexclusive li-

cense and that such an exclusive license should be granted to the applicant

§ 1245.208 Processing applications for license.

(a) *Initial review* Applications for nonexclusive and exclusive licenses under §§ 1245 206 and 1245 207 will be reviewed by the Patent Counsel of the NASA installation having cognizance for the invention and the NASA Assistant General Counsel for Patent Matters, to determine the conformity and appropriateness of the application for license and the availability of the specific invention for the license requested. The Assistant General Counsel for Patent Matters will forward all applications for license conforming to §§ 1245 206(b) and 1245 207(b) to the NASA Inventions and Contributions Board when the invention is available for consideration of the requested license. Prior to forwarding applications for exclusive licenses to the Inventions and Contributions Board, notice in writing will be given to each nonexclusive licensee for the specific invention advising of the receipt of the application for the exclusive license and providing each nonexclusive licensee with a 30-day period for submitting either evidence that practical application of the invention has occurred or is about to occur or, an application for an exclusive license for the invention.

(b) *Recommendations of Inventions and Contributions Board.* The Inventions and Contributions Board shall, in accordance with the basic considerations set forth in §§ 1245.202 and 1245.203, evaluate all applications for license forwarded by the Assistant General Counsel for Patent Matters. Based upon the facts presented to the Inventions and Contributions Board in the application and any other facts in its possession, the Inventions and Contributions Board shall recommend to the Administrator: (1) Whether a nonexclusive or exclusive license should be granted, (2) the identity of the licensee, and (3) any special terms or conditions of the license.

(c) *Determination of Administrator and grant of nonexclusive licenses.* The Administrator shall review the recommendations of the Inventions and Contributions Board and shall determine whether to grant the nonexclusive license as recommended by the Board If the Administrator determines to grant the license, the license will be granted upon the negotiation of the appropriate terms and conditions of the Office of General Counsel.

(d) *Determination of Administrator and grant of exclusive licenses*—(1) *Notice.* If the Administrator determines that the best interest of the United States will be served by the granting of an exclusive license in accordance with the basic considerations set forth in §§ 1245.202 and 1245 203, a notice shall be published in the FEDERAL REGISTER announcing the intent to grant the exclusive license, the identification of the invention, special terms or conditions of the proposed license, and a statement that NASA will grant the exclusive license unless within 30 days of the publication of such notice the Inventions and Contributions Board receives in writing any of the following together with supporting documentation·

(i) A statement from any person setting forth reasons why it would not be in the best interest of the United States to grant the proposed exclusive license, or

(ii) An application for a nonexclusive license under such invention, in accordance with § 1245 206(b), in which applicant states that he has already brought or is likely to bring the invention to practical application within a reasonable period.

The Inventions and Contributions Board shall, upon receipt of a written request within the 30 days' notice period, grant an extension of 30 days for the submission of the documents designated above

(2) *Recommendation of Inventions and Contributions Board.* Upon the expiration of the period required by subparagraph (1) of this paragraph, the Board shall review all written responses to the notice and shall then recommend to the Administrator whether to grant the exclusive license as the Board initially recommended or whether a different form of license, if any, should instead be granted

(3) *Grant of exclusive licenses.* The Administrator shall review the Board's recommendation and shall determine if the interest of the United States would best be served by the grant of an exclusive license as recommended by the Board. If the Administrator determines to grant the exclusive license, the license will be granted upon the negotiation of the appropriate terms and conditions by the Office of General Counsel.

§ 1245.209 Royalties and fees.

(a) Normally, a nonexclusive license for the practical application of an invention granted to a U S. citizen or company will not require the payment of royalties; however, NASA may require other consideration.

(b) An exclusive license for an invention may require the payment of royalties, fees or other consideration when the licensing circumstances and the basic considerations in § 1245 202, considered together, indicate that it is in the public interest to do so.

§ 1245.210 Reports.

A license shall require the licensee to submit periodic reports of his efforts to work the invention The reports shall contain information within his knowledge, or which he may acquire under normal business practice, pertaining to the commercial use that is being made of the invention and such other information which the Administrator may determine pertinent to the licensing program and which is specified in the license.

§ 1245.211 Revocation of licenses.

(a) Any license granted pursuant to § 1245 203 may be revoked, either in part or in its entirety, by the Administrator if in his opinion the licensee at any time shall fail to use adequate efforts to bring to or achieve practical application of the invention in accordance with the terms of the license, or if the licensee at any time shall default in making any report required by the license, or shall make any false report, or shall commit any breach of any covenant or agreement therein contained, and shall fail to remedy any such default, false report, or breach within 30 days after written notice, or if the patent is deemed unenforceable either by the Attorney General or a final decision of a U S court.

(b) Any license granted pursuant to § 1245 204(a) may be revoked, either in part or in its entirety, by the Administrator if in his opinion such revocation is necessary to achieve the earliest practical application of the invention pursuant to an application for exclusive license submitted in accordance with § 1245 207, or the licensee at any time shall breach any covenant or agreement contained in the license, and shall fail to remedy any such breach within 30 days after written notice thereof.

(c) Before revoking any license granted pursuant to this Subpart 2 for any cause, there will be furnished to the licensee a written notice of intention to revoke the license, and the licensee will be allowed 30 days after such notice in which to appeal and request a hearing before the Inventions and Contributions Board on the question of revocation. After a hearing, the Inventions and Contributions Board shall transmit to the Administrator the record of proceedings, its findings of fact, and its recommendation whether the license should be revoked either in part or in its entirety. The Administrator shall review the recommendation of the Board and determine whether to revoke the license in part or in its entirety Revocation of a license shall include revocation of all sublicenses which have been granted.

§ 1245.212 Appeals.

Any person desiring to file an appeal pursuant to § 1245 211(c) shall address the appeal to Chairman, Inventions and Contributions Board Any person filing an appeal shall be afforded an opportunity to be heard before the Inventions and Contributions Board, and to offer evidence in support of his appeal The procedures to be followed in any such matter shall be determined by the Administrator The Board shall make findings of fact and recommendations with respect to disposition of the appeal The decision on the appeal shall be made by the Administrator, and such decision shall be final and conclusive, except on questions of law, unless determined by a court of competent jurisdiction to have been fraudulent, or capricious, or arbitrary, or so grossly erroneous as necessarily to imply bad faith, or not supported by substantial evidence.

§ 1245.213 Litigation.

An exclusive licensee shall be granted the right to sue at his own expense any party who infringes the rights set forth in his license and covered by the licensed patent The licensee may join the Government, upon consent of the Attorney General, as a party complainant in such suit, but without expense to the Government and the licensee shall pay costs and any final judgment or decree that may be rendered against the Govern-

ment in such suit The Government shall also have an absolute right to intervene in any such suit at its own expense The licensee shall be obligated to promptly furnish to the Government, upon request, copies of all pleadings and other papers filed in any such suit and of evidence adduced in proceedings relating to the licensed patent including, but not limited to, negotiations for settlement and agreements settling claims by a licensee based on the licensed patent, and all other books, documents, papers, and records pertaining to such suit If, as a result of any such litigation the patent shall be declared invalid, the licensee shall have the right to surrender his license and be relieved from any further obligation thereunder.

§ 1245.214 Address of communications.

(a) Communications to the Assistant General Counsel for Patent Matters in accordance with §§ 1245 206 and 1245 207 and requests for information concerning licenses for NASA inventions should be addressed to the Assistant General Counsel for Patent Matters, Code GP, National Aeronautics and Space Administration, Washington, D C 20546.

(b) Communications to the Inventions and Contributions Board in accordance with §§ 1245.208, 1245.211, and 1245 212 should be addressed to Chairman, Inventions and Contributions Board, National Aeronautics and Space Administration, Washington, D C 20546

Effective date. The regulations set forth in this subpart 2 are effective April 1, 1972

JAMES C FLETCHER,
Administrator.

FOREIGN PATENT LICENSING REGULATIONS

Selected NASA inventions are also available for licensing in countries other than the United States in accordance with the NASA Foreign Patent Licensing Regulation (14 C F R 1245 4), a copy of which is available from any NASA Patent Counsel For abstracts of NASA-owned inventions available for licensing in countries other than the United States, see NASA SP-7038, "Significant NASA Inventions Available for Licensing in Countries Other Than the United States" A copy of this NASA publication is available from NASA Headquarters, Code GP-4, Washington, D C, 20546

Subject Categories

(1969 – 1973)

01 Aerodynamics
Includes aerodynamics of bodies, combinations, internal flow in ducts and turbomachinery, wings, rotors, and control surfaces For applications see 02 Aircraft and 32 Space Vehicles For related information see also 12 Fluid Mechanics, and 33 Thermodynamics and Combustion

02 Aircraft
Includes fixed-wing airplanes, helicopters, gliders, balloons, ornithopters, etc , and specific types of complete aircraft (e g , ground effect machines, STOL, and VTOL), flight tests, operating problems (e g , sonic boom), safety and safety devices, economics, and stability and control For basic research see 01 Aerodynamics For related information see also 31 Space Vehicles, and 32 Structural Mechanics

03 Auxiliary Systems
Includes fuel cells, energy conversion cells, and solar cells, auxiliary gas turbines, hydraulic, pneumatic and electrical systems, actuators, and inverters For related information see also 09 Electronic Equipment, 22 Nuclear Engineering, and 28 Propulsion Systems

04 Biosciences
Includes aerospace medicine, exobiology, radiation effects on biological systems, physiological and psychological factors For related information see also 05 Biotechnology

05 Biotechnology
Includes life support systems, human engineering, protective clothing and equipment, crew training and evaluation, and piloting For related information see also 04 Biosciences

06 Chemistry
Includes chemical analysis and identification (e g , spectroscopy) For applications see 17 Materials, Metallic, 18 Materials, Nonmetallic, and 27 Propellants

07 Communications
Includes communications equipment and techniques, noise, radio and communications blackout, modulation telemetry, tracking radar and optical observation, and wave propagation For basic research see 23 Physics, General, and 21 Navigation

08 Computers
Includes computer operation and programming, and data processing For applications, see specific categories For related information see also 19 Mathematics

09 Electronic Equipment
Includes electronic test equipment and maintainability, component parts, e g , electron tubes, tunnel diodes, transistors, integrated circuitry, microminiaturization For basic research see 10 Electronics For related information see also 07 Communications and 21 Navigation

10 Electronics
Includes circuit theory, and feedback and control theory For applications see 09 Electronic Equipment For related information see specific Physics categories

11 Facilities, Research and Support
Includes airports, lunar and planetary bases including associated vehicles, ground support systems, related logistics, simulators, test facilities (e g , rocket engine test stands, shock tubes, and wind tunnels), test ranges, and tracking stations

12 Fluid Mechanics
Includes boundary-layer flow, compressible flow, gas dynamics, hydrodynamics, and turbulence For related information see also 01 Aerodynamics, and 33 Thermodynamics and Combustion

13 Geophysics
Includes aeronomy, upper and lower atmosphere studies, oceanography, cartography, and geodesy For related information see also 20 Meteorology, 29 Space Radiation, and 30 Space Sciences

14 Instrumentation and Photography
Includes design, installation, and testing of instrumentation systems, gyroscopes, measuring instruments and gages, recorders, transducers, aerial photography, and telescopes and cameras

15 Machine Elements and Processes
Includes bearings, seals, pumps, and other mechanical equipment, lubrication, friction, and wear, manufacturing processes and quality control, reliability, drafting, and materials fabrication, handling, and inspection

16 Masers
Includes applications of masers and lasers For basic research see 26 Physics, Solid-State

17 Materials, Metallic
Includes cermets, corrosion, physical and mechanical properties of materials, metallurgy, and applications as structural materials For basic research see 06 Chemistry For related information see also 18 Materials, Nonmetallic, and 32 Structural Mechanics

18 Materials, Nonmetallic
Includes corrosion, physical and mechanical properties of materials (e g , plastics), and elastomers hydraulic fluids, etc For basic research see 06 Chemistry For related information see also 17 Materials, Metallic, 27 Propellants, and 32 Structural Mechanics

19 Mathematics
Includes calculation methods and theory, and numerical analysis For applications see specific categories For related information see also 08 Computers

20 Meteorology
Includes climatology, weather forecasting, and visibility studies For related information see also 13 Geophysics, and 30 Space Sciences

21 Navigation
Includes guidance, autopilots, star and planet tracking, inertial platforms, and air traffic control For related information see also 07 Communications

22 Nuclear Engineering
Includes nuclear reactors and nuclear heat sources used for propulsion and auxiliary power For basic research see 24 Physics, Atomic, Molecular, and Nuclear For related information see also 03 Auxiliary Systems, and 28 Propulsion Systems

23 Physics, General
Includes acoustics, cryogenics, mechanics, and optics For astrophysics see 30 Space Sciences For geophysics and related information see also 13 Geophysics, 20 Meteorology, and 29 Space Radiation

24 Physics, Atomic, Molecular, and Nuclear
Includes atomic, molecular and nuclear physics For applications see 22 Nuclear Engineering For related information see also 29 Space Radiation

25 Physics, Plasma
Includes magnetohydrodynamics For applications see 28 Propulsion Systems

26 Physics, Solid-State
Includes semiconductor theory, and superconductivity For applications see 16 Masers For related information see also 10 Electronics

27 Propellants
Includes fuels, igniters, and oxidizers For basic research see 06 Chemistry, and 33 Thermodynamics and Combustion For related information see also 28 Propulsion Systems

28 Propulsion Systems
Includes air breathing, electric, liquid, solid, and magnetohydrodynamic propulsion For nuclear propulsion see 22 Nuclear Engineering For basic research see 23 Physics, General, and 33 Thermodynamics and Combustion For applications see 31 Space Vehicles For related information see also 27 Propellants

29 Space Radiation
Includes cosmic radiation, solar flares, solar radiation, and Van Allen radiation belts For related information see also 13 Geophysics, and 24 Physics, Atomic, Molecular, and Nuclear

30 Space Sciences
Includes astronomy and astrophysics, cosmology, lunar and planetary flight and exploration, and theoretical analysis of orbits and trajectories For related information see also 11 Facilities, Research and Support, and 31 Space Vehicles

31 Space Vehicles
Includes launch vehicles, manned space capsules, clustered and multistage rockets, satellites, sounding rockets and probes, and operating problems For basic research see 30 Space Sciences For related information see also 28 Propulsion Systems, and 32 Structural Mechanics

32 Structural Mechanics
Includes structural element design and weight analysis, fatigue, thermal stress, impact phenomena, vibration, flutter, inflatable structures, and structural tests For related information see also 17 Materials, Metallic, and 18 Materials, Nonmetallic

33 Thermodynamics and Combustion
Includes ablation, cooling, heating, heat transfer, thermal balance, and other thermal effects, and combustion theory For related information see also 12 Fluid Mechanics, and 27 Propellants

34 General
Includes information of a broad nature related to industrial applications and technology, and to basic research, defense aspects, information retrieval, management, law and related legal matters, and legislative hearings and documents

TABLE OF CONTENTS

Section 1 • Abstracts

Subject Categories (1974 -)

AERONAUTICS

Includes aeronautics (general), aerodynamics, air transportation and safety, aircraft communications and navigation, aircraft design, testing and performance, aircraft instrumentation, aircraft propulsion and power, aircraft stability and control, and research and support facilities (air)

For related information see also *Astronautics*

01 AERONAUTICS (GENERAL)

02 AERODYNAMICS

Includes aerodynamics of bodies, combinations, wings, rotors, and control surfaces, and internal flow in ducts and turbomachinery

For related information see also *34 Fluid Mechanics and Heat Transfer*

03 AIR TRANSPORTATION AND SAFETY

Includes passenger and cargo air transport operations, and aircraft accidents

For related information see also *16 Space Transportation* and *85 Urban Technology and Transportation*

04 AIRCRAFT COMMUNICATIONS AND NAVIGATION

Includes digital and voice communication with aircraft, air navigation systems (satellite and ground based), and air traffic control

For related information see also *17 Spacecraft Communications, Command and Tracking* and *32 Communications*

05 AIRCRAFT DESIGN, TESTING AND PERFORMANCE

Includes aircraft simulation technology

For related information see also *18 Spacecraft Design, Testing and Performance* and *39 Structural Mechanics*

06 AIRCRAFT INSTRUMENTATION

Includes cockpit and cabin display devices, and flight instruments

For related information see also *19 Spacecraft Instrumentation* and *35 Instrumentation and Photography*

07 AIRCRAFT PROPULSION AND POWER

Includes prime propulsion systems and systems components, e g , gas turbine engines and compressors, and on-board auxiliary power plants for aircraft

For related information see also *20 Spacecraft Propulsion and Power, 28 Propellants and Fuels,* and *44 Energy Production and Conversion*

08 AIRCRAFT STABILITY AND CONTROL

Includes aircraft handling qualities, piloting, flight controls, and autopilots

09 RESEARCH AND SUPPORT FACILITIES (AIR)

Includes airports, hangars and runways, aircraft repair and overhaul facilities, wind tunnels, shock tube facilities, and engine test blocks

For related information see also *14 Ground Support Systems and Facilities (Space)*

ASTRONAUTICS

Includes astronautics (general), astrodynamics, ground support systems and facilities (space), launch vehicles and space vehicles, space transportation, spacecraft communications, command and tracking, spacecraft design, testing and performance, spacecraft instrumentation, and spacecraft propulsion and power

For related information see also *Aeronautics*

12 ASTRONAUTICS (GENERAL)

For extraterrestrial exploration see *91 Lunar and Planetary Exploration*

13 ASTRODYNAMICS

Includes powered and free-flight trajectories, and orbit and launching dynamics

14 GROUND SUPPORT SYSTEMS AND FACILITIES (SPACE)

Includes launch complexes, research and production facilities, ground support equipment, e g , mobile transporters, and simulators

For related information see also *09 Research and Support Facilities (Air)*

15 LAUNCH VEHICLES AND SPACE VEHICLES

Includes boosters, manned orbital laboratories, reusable vehicles, and space stations

16 SPACE TRANSPORTATION

Includes passenger and cargo space transportation, e g , shuttle operations, and rescue techniques

For related information see also *03 Air Transportation and Safety* and *85 Urban Technology and Transportation*

17 SPACECRAFT COMMUNICATIONS, COMMAND AND TRACKING

Includes telemetry, space communications networks, astronavigation, and radio blackout

For related information see also *04 Aircraft Communications and Navigation* and *32 Communications*

18 SPACECRAFT DESIGN, TESTING AND PERFORMANCE

Includes spacecraft thermal and environmental control, and attitude control

For life support systems see *54 Man/System Technology and Life Support* For related information see also *05 Aircraft Design, Testing and Performance* and *39 Structural Mechanics*

19 SPACECRAFT INSTRUMENTATION
For related information see also *06 Aircraft Instrumentation* and *35 Instrumentation and Photography*

20 SPACECRAFT PROPULSION AND POWER
Includes main propulsion systems and components, e g , rocket engines, and spacecraft auxiliary power sources
For related information see also *07 Aircraft Propulsion and Power, 28 Propellants and Fuels,* and *44 Energy Production and Conversion*

CHEMISTRY AND MATERIALS

Includes chemistry and materials (general), composite materials, inorganic and physical chemistry, metallic materials, nonmetallic materials, and propellants and fuels

23 CHEMISTRY AND MATERIALS (GENERAL)
Includes biochemistry and organic chemistry

24 COMPOSITE MATERIALS
Includes laminates

25 INORGANIC AND PHYSICAL CHEMISTRY
Includes chemical analysis, e g , chromatography, combustion theory, electrochemistry, and photochemistry
For related information see also *77 Thermodynamics and Statistical Physics*

26 METALLIC MATERIALS
Includes physical, chemical, and mechanical properties of metals, e g , corrosion, and metallurgy

27 NONMETALLIC MATERIALS
Includes physical, chemical, and mechanical properties of plastics, elastomers, lubricants, polymers, textiles, adhesives, and ceramic materials

28 PROPELLANTS AND FUELS
Includes rocket propellants, igniters, and oxidizers, storage and handling, and aircraft fuels
For related information see also *07 Aircraft Propulsion and Power, 20 Spacecraft Propulsion and Power,* and *44 Energy Production and Conversion*

ENGINEERING

Includes engineering (general), communications, electronics and electrical engineering, fluid mechanics and heat transfer, instrumentation and photography, lasers and masers, mechanical engineering, quality assurance and reliability, and structural mechanics
For related information see also *Physics*

31 ENGINEERING (GENERAL)
Includes vacuum technology, control engineering, display engineering, and cryogenics

32 COMMUNICATIONS
Includes land and global communications, communications theory, and optical communications
For related information see also *04 Aircraft Communications and Navigation* and *17 Spacecraft Communications, Command and Tracking*

33 ELECTRONICS AND ELECTRICAL ENGINEERING
Includes test equipment and maintainability, components, e g , tunnel diodes and transistors, microminiaturization, and integrated circuitry
For related information see also *60 Computer Operations and Hardware* and *76 Solid-State Physics*

34 FLUID MECHANICS AND HEAT TRANSFER
Includes boundary layers, hydrodynamics, fluidics, mass transfer, and ablation cooling
For related information see also *02 Aerodynamics* and *77 Thermodynamics and Statistical Physics*

35 INSTRUMENTATION AND PHOTOGRAPHY
Includes remote sensors, measuring instruments and gages, detectors, cameras and photographic supplies, and holography
For aerial photography see *43 Earth Resources*
For related information see also *06 Aircraft Instrumentation* and *19 Spacecraft Instrumentation*

36 LASERS AND MASERS
Includes parametric amplifiers

37 MECHANICAL ENGINEERING
Includes auxiliary systems (non-power), machine elements and processes, and mechanical equipment

38 QUALITY ASSURANCE AND RELIABILITY
Includes product sampling procedures and techniques, and quality control

39 STRUCTURAL MECHANICS
Includes structural element design and weight analysis, fatigue, and thermal stress
For applications see *05 Aircraft Design, Testing and Performance* and *18 Spacecraft Design, Testing and Performance*

GEOSCIENCES

Includes geosciences (general), earth resources, energy production and conversion, environment pollution, geophysics, meteorology and climatology, and oceanography
For related information see also *Space Sciences*

42 GEOSCIENCES (GENERAL)

43 EARTH RESOURCES
Includes remote sensing of earth resources by aircraft and spacecraft, photogrammetry, and aerial photography
For instrumentation see *35 Instrumentation and Photography*

44 ENERGY PRODUCTION AND CONVERSION
Includes specific energy conversion systems, e g , fuel cells and batteries, global sources of energy, fossil fuels, geophysical conversion, hydroelectric power, and wind power
For related information see also *07 Aircraft Propulsion and Power, 20 Spacecraft Propulsion and Power, 28 Propellants and Fuels,* and *85 Urban Technology and Transportation*

45 ENVIRONMENT POLLUTION
Includes air, noise, thermal and water pollution, environment monitoring, and contamination control

46 GEOPHYSICS
Includes aeronomy, upper and lower atmosphere studies, ionospheric and magnetospheric physics, and geomagnetism
For space radiation see *93 Space Radiation*

47 METEOROLOGY AND CLIMATOLOGY
Includes weather forecasting and modification

48 OCEANOGRAPHY
Includes biological, dynamic and physical oceanography, and marine resources

LIFE SCIENCES

Includes life sciences (general), aerospace medicine, behavioral sciences, man/system technology and life support, and planetary biology

51 LIFE SCIENCES (GENERAL)
Includes genetics

52 AEROSPACE MEDICINE
Includes physiological factors, biological effects of radiation, and weightlessness

53 BEHAVIORAL SCIENCES
Includes psychological factors, individual and group behavior, crew training and evaluation, and psychiatric research

54 MAN/SYSTEM TECHNOLOGY AND LIFE SUPPORT
Includes human engineering, biotechnology, and space suits and protective clothing

55 PLANETARY BIOLOGY
Includes exobiology, and extraterrestrial life

MATHEMATICAL AND COMPUTER SCIENCES

Includes mathematical and computer sciences (general), computer operations and hardware, computer programming and software, computer systems, cybernetics, numerical analysis, statistics and probability, systems analysis, and theoretical mathematics

59 MATHEMATICAL AND COMPUTER SCIENCES (GENERAL)

60 COMPUTER OPERATIONS AND HARDWARE
Includes computer graphics and data processing
For components see *33 Electronics and Electrical Engineering*

61 COMPUTER PROGRAMMING AND SOFTWARE
Includes computer programs, routines, and algorithms

62 COMPUTER SYSTEMS
Includes computer networks

63 CYBERNETICS
Includes feedback and control theory
For related information see also *54 Man/System Technology and Life Support*

64 NUMERICAL ANALYSIS
Includes iteration, difference equations, and numerical approximation

65 STATISTICS AND PROBABILITY
Includes data sampling and smoothing, Monte Carlo method, and stochastic processes

66 SYSTEMS ANALYSIS
Includes mathematical modeling, network analysis, and operations research

67 THEORETICAL MATHEMATICS
Includes topology and number theory

PHYSICS

Includes physics (general), acoustics, atomic and molecular physics, nuclear and high-energy physics, optics, plasma physics, solid-state physics, and thermodynamics and statistical physics
For related information see also *Engineering*

70 PHYSICS (GENERAL)
For geophysics see *46 Geophysics* For astrophysics see *90 Astrophysics* For solar physics see *92 Solar Physics*

71 ACOUSTICS
Includes sound generation, transmission, and attenuation
For noise pollution see *45 Environment Pollution*

72 ATOMIC AND MOLECULAR PHYSICS
Includes atomic structure and molecular spectra

73 NUCLEAR AND HIGH-ENERGY PHYSICS
Includes elementary and nuclear particles, and reactor theory
For space radiation see *93 Space Radiation*

74 OPTICS
Includes light phenomena

75 PLASMA PHYSICS
Includes magnetohydrodynamics and plasma fusion
For ionospheric plasmas see *46 Geophysics* For space plasmas see *90 Astrophysics*

76 SOLID-STATE PHYSICS
Includes superconductivity
For related information see also *33 Electronics and Electrical Engineering* and *36 Lasers and Masers*

77 THERMODYNAMICS AND STATISTICAL PHYSICS
Includes quantum mechanics, and Bose and Fermi statistics
For related information see also *25 Inorganic and Physical Chemistry* and *34 Fluid Mechanics and Heat Transfer*

SOCIAL SCIENCES

Includes social sciences (general), administration and management, documentation and information science, economics and cost analysis, law and political science, and urban technology and transportation

80 SOCIAL SCIENCES (GENERAL)
Includes educational matters

81 ADMINISTRATION AND MANAGEMENT
Includes management planning and research

82 DOCUMENTATION AND INFORMATION SCIENCE
Includes information storage and retrieval technology, micrography, and library science
For computer documentation see *61 Computer Programming and Software*

83 ECONOMICS AND COST ANALYSIS
Includes cost effectiveness studies

84 LAW AND POLITICAL SCIENCE
Includes space law, international law, international cooperation, and patent policy

85 URBAN TECHNOLOGY AND TRANSPORTATION
Includes applications of space technology to urban problems, technology transfer, technology assessment, and surface and mass transportation
For related information see *03 Air Transportation and Safety, 16 Space Transportation,* and *44 Energy Production and Conversion*

SPACE SCIENCES

Includes space sciences (general), astronomy, astrophysics, lunar and planetary exploration, solar physics, and space radiation
For related information see also *Geosciences*

88 SPACE SCIENCES (GENERAL)

89 ASTRONOMY
Includes radio and gamma-ray astronomy, celestial mechanics, and astrometry

90 ASTROPHYSICS
Includes cosmology, and interstellar and interplanetary gases and dust

91 LUNAR AND PLANETARY EXPLORATION
Includes planetology, and manned and unmanned flights
For spacecraft design see *18 Spacecraft Design, Testing and Performance* For space stations see *15 Launch Vehicles and Space Vehicles*

92 SOLAR PHYSICS
Includes solar activity, solar flares, solar radiation and sunspots

93 SPACE RADIATION
Includes cosmic radiation, and inner and outer earth's radiation belts
For biological effects of radiation see *52 Aerospace Medicine* For theory see *73 Nuclear and High-Energy Physics.*

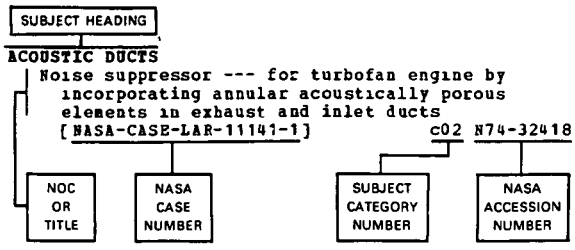
GENERAL

99 GENERAL

Section 2 • Indexes

SUBJECT INDEX I-1
INVENTOR INDEX I-229
SOURCE INDEX I-321
NUMBER INDEX I-375
ACCESSION NUMBER INDEX I-463

Typical Subject Index Listing



The subject heading is the key to the subject content of the document A brief description of the document e g title title plus a title extension or Notation of Content (NOC) is included for each subject entry to indicate the subject heading context these descriptions are arranged under each subject heading in ascending accession number order The NASA Case Number serves as the prime access number to the patent documents The Subject Category Number indicates the category in Section 1 (Abstracts) in which the patent citation and abstract are located The NASA accession number denotes the number by which the citation is identified within the subject category

A

ABLATION
Transpirationally cooled heat ablation system for interplanetary spacecraft reentry shielding
[NASA-CASE-XMS-02677] c31 N70-42075
Hypersonic test facility for studying ablation in models under high pressure and high temperature
[NASA-CASE-XLA-00378] c11 N71-15925
Design of hypersonic test facility for ablation tests and performance tests of vehicles under conditions of high temperature and pressure
[NASA-CASE-XLA-05378] c11 N71-21475
Ablation sensor for measuring char layer recession rate using electric wires
[NASA-CASE-XLA-01794] c33 N71-21586
Ablation sensor for measuring surface ablation rate of material on vehicles entering earths atmosphere on entry into planetary atmospheres
[NASA-CASE-XLA-01791] c14 N71-22991
Ablative system with liquid carrying ablattive material bodies and forming self-replacing ablative surface
[NASA-CASE-LEW-10359] c33 N72-25911
ABLATIVE MATERIALS
Filling honeycomb matrix with deaerated paste filler
[NASA-CASE-XMS-01108] c15 N69-24322
Sensor device with switches for measuring surface recession of charring and noncharring ablators
[NASA-CASE-XLA-01781] c14 N69-39975
Vacuum method for molding thermosetting compounds used as ablative materials
[NASA-CASE-XLA-01091] c15 N71-10672
Ablative resins used for retarding regression in ablative material
[NASA-CASE-XLE-05913] c33 N71-14032
Design, development, and characteristics of ablation structures
[NASA-CASE-XMS-01816] c33 N71-15623
Method and apparatus for fabrication of heat insulating and ablative reentry structure
[NASA-CASE-XMS-02009] c33 N71-20834
Production and application of sprayable fiber reinforced ablation material
[NASA-CASE-XLA-04251] c18 N71-26100
Ablative heat shield for protection from aerodynamic heating of reentry spacecraft
[NASA-CASE-MSC-12143-1] c33 N72-17947
Ablative system with liquid carrying ablattive material bodies and forming self-replacing ablative surface
[NASA-CASE-LEW-10359] c33 N72-25911
Carrier liquid system containing bodies of ablative material
[NASA-CASE-LEW-10359-2] c33 N73-25952
Ablation article and surface for analyzing flow transition on ablative surface
[NASA-CASE-LAR-10439-1] c33 N73-27796
Dual measurement ablation sensor
[NASA-CASE-LAR-10105-1] c34 N74-15652
Intumescent-ablator coatings using endothermic fillers
[NASA-CASE-ARC-11043-1] c34 N77-14372
Sprayable low density ablator
[NASA-CASE-MFS-23506-1] c24 N77-15105
ABORT APPARATUS
Coupling device for linear shaped charge for space vehicle abort system
[NASA-CASE-XLA-00189] c33 N70-36846
ABRASION RESISTANCE
Zinc dust formulation for abrasion resistant steel coatings
[NASA-CASE-GSC-10361-1] c18 N72-23581
Improved nozzle for use with abrasive and/or corrosive materials
[NASA-CASE-NPO-13823-1] c37 N77-17466
Abrasion resistant coatings for plastic surfaces
[NASA-CASE-ARC-10915-3] c24 N77-24200
ABSORBENTS
Absorbent apparatus for separating gas from liquid-gas stream used in environmental control under zero gravity conditions
[NASA-CASE-XMS-01492] c05 N70-41297
Fluid flow control valve for regulating fluids in molecular quantities
[NASA-CASE-XLE-00703] c15 N71-15967
Noncontaminating swab with absorbent end covered with netted envelope to prevent egress of absorbent material
[NASA-CASE-MFS-18100] c15 N72-11390
Protein sterilization of firefly luciferase without denaturation
[NASA-CASE-GSC-10225-1] c06 N73-27086
Oil and fat absorbing polymers
[NASA-CASE-NPO-11609-2] c27 N77-31308
ABSORBERS (MATERIALS)
Broadband chokes and absorbers to reduce spurious radiation patterns of antenna array caused by support structures
[NASA-CASE-XMS-05303] c07 N69-27462
Analytical photoionization mass spectrometer with argon gas filter between light source and monochrometer
[NASA-CASE-LAR-10180-1] c06 N71-13461
Development of filter system for control of outgas contamination in vacuum conditions using absorbent beds of molecular sieve zeolite, silica gel, and charcoal
[NASA-CASE-MFS-14711] c15 N71-26185
Development and characteristics of calorimeter with integral heat sink for maintenance of constant temperature
[NASA-CASE-XMF-04208] c33 N71-29051
Aldehyde-containing urea-absorbing polysaccharides
[NASA-CASE-NPO-13620-1] c27 N77-30236
ABSORPTION CROSS SECTIONS
Radiation source and detection system for measuring amount of liquid inside tanks independently of liquid configuration
[NASA-CASE-MSC-12280] c27 N71-16348
ABSORPTIVITY
Detector absorptivity measuring method and apparatus
[NASA-CASE-LAR-10907-1] c35 N76-29551

AC GENERATORS
Alternating current signal generator providing plurality of amplitude modulated output signals
[NASA-CASE-XNP-05612] c09 N69-21468
Improved alternator with windings of superconducting materials acting as permanent magnet
[NASA-CASE-XLE-02824] c03 N69-39890
Superconducting alternator design with cryogenic fluid for cooling windings below critical temperature
[NASA-CASE-XLE-02823] c09 N71-23443

ACCELERATION
Single grid accelerator system for electron bombardment type ion thrustor
[NASA-CASE-XLE-10453-2] c28 N73-27699

ACCELERATION (PHYSICS)
Centrifuge mounted motion simulator with elevator mechanism
[NASA-CASE-XAC-00399] c11 N70-34815
Gravity device for accurate and rapid indication of relative gravity conditions aboard accelerating carrier
[NASA-CASE-XMF-00424] c11 N70-38196
Development of method for producing artificial gravity in manned spacecraft
[NASA-CASE-XNP-02595] c31 N71-21881
Vibration control of flexible bodies in steady accelerating environment
[NASA-CASE-LAR-10106-1] c15 N71-27169
G-load measuring and indicator apparatus --- for aircraft
[NASA-CASE-ARC-10806] c06 N74-27872
Apparatus for applying simulator g-forces to an arm of an aircraft simulator pilot
[NASA-CASE-LAR-10550-1] c09 N74-30597
G-load measuring and indicator apparatus
[NASA-CASE-ARC-10806-1] c35 N75-29381
A seat cushion to provide realistic acceleration cues for aircraft simulator pilots
[NASA-CASE-LAR-12149-1] c54 N77-31787

ACCELERATION PROTECTION
Astronaut restraint suit for high acceleration protection
[NASA-CASE-XAC-00405] c05 N70-41819

ACCELERATION STRESSES (PHYSIOLOGY)
Development of method for producing artificial gravity in manned spacecraft
[NASA-CASE-XNP-02595] c31 N71-21881

ACCELERATION TOLERANCE
Electronic detection system for peak acceleration limits in vibrational testing of spacecraft components
[NASA-CASE-NPO-10556] c14 N71-27185

ACCELERATORS
Annular arc accelerator shock tube
[NASA-CASE-NPO-13528-1] c09 N77-10071
Spring operated accelerator and constant force spring mechanism therefor
[NASA-CASE-ARC-10898-1] c35 N77-18417

ACCELEROMETERS
Superconductive accelerometer employing variable force principle to determine acceleration of bodies
[NASA-CASE-XMF-01099] c14 N71-15969
Describing device for velocity control of electromechanical drive mechanism of scanning mirror of interferometer
[NASA-CASE-XGS-03532] c14 N71-17627
Omnidirectional liquid filled accelerometer design with liquid and housing temperature compensation
[NASA-CASE-HQN-10780] c14 N71-30265
Development of combined velocimeter and accelerometer based on color changes in liquid crystalline material subjected to shear stresses
[NASA-CASE-ERC-10292] c14 N72-25410
Temperature compensated digital inertial sensor --- circuit for maintaining inertial element of gyroscope or accelerometer at constant position
[NASA-CASE-NPO-13044-1] c35 N74-15094
Accelerometer telemetry system
[NASA-CASE-ARC-10849-1] c17 N76-29347

ACCEPTOR MATERIALS
III-V photocathode with nitrogen doping for increased quantum efficiency
[NASA-CASE-NPO-12134-1] c33 N76-31409

ACCUMULATORS
Direct radiation cooling of linear beam collector tubes
[NASA-CASE-XNP-09227] c15 N69-24319
Regenerative cooling system for small rocket engine having restart capability and using noncryogenic hypergolic propellants
[NASA-CASE-XLE-00685] c28 N70-41992
Small plasma probe using tungsten wire collector in tubular shield
[NASA-CASE-XLE-02578] c25 N71-20747
Electrostatic charged particle collector containing stacked electrodes for microwave tube
[NASA-CASE-LEW-11192-1] c09 N73-13208
Accumulator
[NASA-CASE-MFS-19287-1] c34 N77-30399

ACETALS
Synthesis of schiff bases for heat shields by acetal amine reactions
[NASA-CASE-XMF-08652] c06 N71-11243

ACETYLENE
Preparation of dicyanoacetylene and vinylidene copolymers using organic compounds
[NASA-CASE-XNP-03250] c06 N71-23500

ACOUSTIC ATTENUATION
Ultrasonic calibration device --- for producing changes in acoustic attenuation and phase velocity
[NASA-CASE-LAR-11435-1] c35 N76-15432

ACOUSTIC DUCTS
Noise suppressor --- for turbofan engine by incorporating annular acoustically porous elements in exhaust and inlet ducts
[NASA-CASE-LAR-11141-1] c07 N74-32418

ACOUSTIC IMPEDANCE
Method and transducer device for detecting presence of hydrogen gas
[NASA-CASE-XMF-03873] c06 N69-39733

ACOUSTIC MEASUREMENTS
Instrumentation for measuring aircraft noise and sonic boom
[NASA-CASE-LAR-11476-1] c07 N76-27232
A miniature implantable ultrasonic echosonometer
[NASA-CASE-ARC-11035-1] c52 N77-15621
Optically selective, acoustically resonant gas detecting transducer
[NASA-CASE-ARC-10639-1] c35 N77-19388
Differential sound level meter
[NASA-CASE-LAR-12106-1] c35 N77-23441

ACOUSTIC PROPAGATION
Material suspension within an acoustically excited resonant chamber --- at near weightless conditions
[NASA-CASE-NPO-13263-1] c12 N75-24774
Hearing aid malfunction detection system
[NASA-CASE-MSC-14916-1] c33 N77-13335

ACOUSTIC PROPERTIES
Development of wind tunnel microphone structure to minimize effects of vibrations and eliminate unwanted signals in microphone output
[NASA-CASE-XNP-00250] c11 N71-28779
Acoustical transducer calibrating system including differential pressure activating device
[NASA-CASE-FRC-10060-1] c14 N73-27379

ACOUSTICAL HOLOGRAPHY
Hybrid holographic non-destructuve test system --- optical and acoustical methods capable of detecting flaws in materials
[NASA-CASE-MFS-23114-1] c35 N76-24529

ACOUSTICS
Acoustic energy shaping
[NASA-CASE-NPO-13802-1] c71 N76-18886

ACOUSTO-OPTICS
Acoustic vibration test apparatus for wiring harnesses
[NASA-CASE-MSC-15158-1] c14 N72-17325
Differential optoacoustic absorption detector
[NASA-CASE-NPO-13759-1] c35 N77-11363
Method and apparatus for background signal reduction in opto-acoustic absorption measurement
[NASA-CASE-NPO-13683-1] c35 N77-14411

ACRYLATES
Ablative resins used for retarding regression in ablative material
[NASA-CASE-XLE-05913] c33 N71-14032
Durable antistatic coating for polymethylmethacrylate

[NASA-CASE-NPO-13867-1] c27 N77-22257
ACRYLIC RESINS
Abrasion resistant coatings for plastic surfaces
[NASA-CASE-ARC-10915-3] c24 N77-24200
ACTIVATION ENERGY
Heat activated emf cells with aluminum anode
[NASA-CASE-LEW-11359] c03 N71-28579
Heat activated cell with aluminum anode
[NASA-CASE-LEW-11359-2] c03 N72-20034
ACTUATOR DISKS
Cryogenic gyroscope housing --- with annular disks for gas spin-up
[NASA-CASE-MFS-21136-1] c35 N74-18323
ACTUATORS
Electromechanical actuator and its use in rocket thrust control valve
[NASA-CASE-XNP-05975] c15 N69-23185
Power controlled bimetallic electromechanical actuator for accurate, timely, and reliable response to remote control signal
[NASA-CASE-XNP-09776] c09 N69-39929
Patent data on gas actuated bolt disconnect assembly
[NASA-CASE-XLA-00326] c03 N70-34667
Hermetically sealed explosive release mechanism for actuator device
[NASA-CASE-XGS-00824] c15 N71-16078
Burst diaphragm flow initiator for installation in short duration wind tunnels
[NASA-CASE-MFS-12915] c11 N71-17600
Hand controller operable about three respectively perpendicular axes and capable of actuating signal generators for attitude control devices
[NASA-CASE-XMS-07487] c15 N71-23255
Mechanical actuator wherein linear motion changes to rotational motion
[NASA-CASE-XGS-04548] c15 N71-24045
Hydraulic actuator design for space deployment of heat radiators
[NASA-CASE-MSC-11817-1] c15 N71-26611
Electromechanical control actuator system using double differential screws
[NASA-CASE-ERC-10022] c15 N71-26635
System to control speed of hydraulically movable members by limiting energy applied to actuators with hydraulic servo loop
[NASA-CASE-ARC-10131-1] c15 N71-27754
Zero power telemetry actuated switch for biomedical equipment
[NASA-CASE-ARC-10105] c09 N72-17153
Mechanically operated hand which can depress trigger using touch control device
[NASA-CASE-MFS-20413] c15 N72-21463
Hermetically sealed elbow actuator for use in severe environments
[NASA-CASE-MFS-14710] c09 N72-22195
Characteristics of lightweight actuator for imparting linear motion using elongated output shaft
[NASA-CASE-NPO-11222] c15 N72-25456
Rotary actuator for use in environments with no rolling and sliding friction
[NASA-CASE-NPO-10244] c15 N72-26371
Gas-operated actuator with cyclic motion of expansion chamber
[NASA-CASE-NPO-11340] c15 N72-33477
Redundant hydraulic control system for actuators with three main valve combination
[NASA-CASE-MFS-20944] c15 N73-13466
Actuator operated by electrolytic drive gas generator and evacuator
[NASA-CASE-NPO-11369] c15 N73-13467
Manual actuator --- for spacecraft exercising machines
[NASA-CASE-MFS-21481-1] c37 N74-18127
Optically actuated two position mechanical mover
[NASA-CASE-NPO-13105-1] c37 N74-21060
Miniature hydraulic actuator --- for control surfaces on airfoils
[NASA-CASE-LAR-11522-1] c34 N74-34881
Dual output variable pitch turbofan actuation system
[NASA-CASE-LEW-12419-1] c07 N77-14025
Actuator device for artificial leg
[NASA-CASE-MFS-23225-1] c52 N77-14735
Actuator mechanism
[NASA-CASE-GSC-11883-2] c37 N77-15400
Cyclical bi-directional rotary actuator
[NASA-CASE-GSC-11883-1] c37 N77-19458
ADAPTERS
Camera adapter design for image magnification including lens and illuminator
[NASA-CASE-XMF-03844-1] c14 N71-26474
ADAPTIVE CONTROL
Self testing and repairing computer comprising control and diagnostic unit and rollback points for error correction
[NASA-CASE-NPO-10567] c08 N71-24633
Synchronous dc direct-drive system comprising multiple-loop hybrid control system controlling load directly connected to actuator
[NASA-CASE-GSC-10065-1] c10 N71-27136
Versatile ergometer with work load control
[NASA-CASE-MFS-21109-1] c05 N73-27941
Adaptive voting computer system
[NASA-CASE-MSC-13932-1] c62 N74-14920
ADAPTIVE FILTERS
Adaptive notch filter, using modulation techniques for reversed phase noise signal
[NASA-CASE-XMF-01892] c10 N71-22986
ADDING CIRCUITS
Circuit diagram and operation of full binary adder
[NASA-CASE-XGS-00689] c08 N70-34787
Error correction circuitry for binary signal channels
[NASA-CASE-XNP-03263] c09 N71-18843
ADDITIVES
Ammonium perchlorate composite propellant with organic Cu/II/ chelate catalytic additive
[NASA-CASE-LAR-10173-1] c27 N71-14090
Tantalum modified ferritic iron base alloys --- for use in high temperature environments
[NASA-CASE-LEW-12095-1] c26 N76-17233
ADENOSINE TRIPHOSPHATE
Use of enzyme hexokinase and glucose to reduce inherent light levels of ATP in luciferase compositions
[NASA-CASE-XGS-05533] c04 N69-27487
Detection instrument for light emitted from ATP biochemical reaction
[NASA-CASE-XGS-05534] c23 N71-16355
Describing method for lyophilization of luciferase containing mixtures for use in life detection reactions
[NASA-CASE-XGS-05532] c06 N71-17705
Automatic device for assaying urine on bacterial adenosine triphosphate content
[NASA-CASE-GSC-11169-2] c05 N73-32011
Application of luciferase assay for ATP to antimicrobial drug susceptibility
[NASA-CASE-GSC-12039-1] c51 N77-22794
ADHESION
Tool for mounting and removing studs with adhesive coated head portion
[NASA-CASE-MFS-20299] c15 N72-11392
ADHESION TESTS
Apparatus for determining quality of bond between high density material and low density material
[NASA-CASE-MFS-13686] c15 N71-18132
ADHESIVE BONDING
Fabrication of solar cell banks for attaching solar cells to base members or substrates
[NASA-CASE-XNP-00826] c03 N71-20895
Method for honeycomb panel bonding by thermosetting film adhesive with electrical heat means
[NASA-CASE-XMF-01402] c18 N71-21651
Etching aluminum alloys with aqueous solution containing sulfuric acid, hydrofluoric acid, and an alkali metal dischromate for adhesive bonding
[NASA-CASE-XMF-02303] c17 N71-23828
Adhesive spray process for attaching biomedical skin electrodes
[NASA-CASE-XFR-07658-1] c05 N71-26293
Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide
[NASA-CASE-GSC-11577-1] c37 N75-15992
Thermal insulation attaching means
[NASA-CASE-MSC-12619-1] c39 N75-21671
Weld-bonded titanium structures
[NASA-CASE-LAR-11549-1] c37 N77-11397
Surface finishing --- of metal airfoils by adhesive bonding
[NASA-CASE-MSC-12631-2] c05 N77-31131

Thermal insulation attaching means --- adhesive bonding of felt vibration isolators under ceramic tiles
[NASA-CASE-MSC-12619-2] c16 N77-31237

ADHESIVES
Polyimide adhesives
[NASA-CASE-LAR-11397-1] c27 N75-29263
Polyimide adhesives
[NASA-CASE-LAR-12181-1] c27 N77-15192

ADJUSTING
Centering device with ultrafine adjustment for use with roundness measuring apparatus
[NASA-CASE-XMF-00480] c14 N70-39898
Slotted fine-adjustment support for optical devices
[NASA-CASE-MFS-20249] c15 N72-11386
Adjustable support device with jacket screw for altering distance between base and supported member
[NASA-CASE-NPO-10721] c15 N72-27484
Clock setter
[NASA-CASE-LAR-11458-1] c35 N76-16392

AERIAL RUDDERS
Thrust augmented spin recovery device
[NASA-CASE-LAR-11970-1] c08 N77-22147

AERODYNAMIC BRAKES
Bluff-shaped annular configuration for supersonic decelerator for reentry vehicles
[NASA-CASE-XLE-00222] c02 N70-37939
Lightweight, variable solidity knitted parachute fabric --- for aerodynamic decelerators
[NASA-CASE-LAR-10776-1] c02 N74-10034

AERODYNAMIC CHARACTERISTICS
Variable aspect ratio and variable sweep delta wing planforms for supersonic aircraft
[NASA-CASE-XLA-00221] c02 N70-33266
Designing spacecraft for flight into space, atmospheric reentry, and landing at selected sites
[NASA-CASE-XAC-02058] c02 N71-16087
Spacecraft configurations and aerodynamic characteristics of space shuttle systems with two reusable stages
[NASA-CASE-MSC-12433] c31 N73-14854
Airfoil shape for flight at subsonic speeds --- design analysis and aerodynamic characteristics of the GAW-1 airfoil
[NASA-CASE-LAR-10585-1] c02 N76-22154

AERODYNAMIC COEFFICIENTS
Nondestructive method for instrumenting helicopter rotor blades
[NASA-CASE-LAR-11201-1] c35 N77-22452

AERODYNAMIC CONFIGURATIONS
Supersonic aircraft configuration providing for variable aspect ratio and variable sweep wings
[NASA-CASE-XLA-00166] c02 N70-34178
Aerodynamic configuration for aircraft capable of high speed flight and low drag for low speed takeoff or landing upon presently existing airfields
[NASA-CASE-XLA-00806] c02 N70-34858
Manned space capsule configuration for orbital flight and atmospheric reentry
[NASA-CASE-XLA-00149] c31 N70-37938
Aerodynamic configuration of reentry vehicle heat shield to provide longitudinal and directional stability at hypersonic velocities
[NASA-CASE-XMS-04142] c31 N70-41631
Development and characteristics of translating horizontal tail assembly for supersonic aircraft
[NASA-CASE-XLA-08801-1] c02 N71-11043
Variable geometry manned orbital vehicle having high aerodynamic efficiency over wide speed range and incorporating auxiliary pivotal wings
[NASA-CASE-XLA-03691] c31 N71-15674
Afterburner-equipped jet engine nacelle with slotted configuration afterbody
[NASA-CASE-XLA-10450] c28 N71-21493
Variable geometry rotor system for direct control over wake vortex
[NASA-CASE-LAR-10557] c02 N72-11018
Development of auxiliary lifting system to provide ferry capability for entry vehicles
[NASA-CASE-LAR-10574-1] c11 N73-13257
Multistage aerospace craft --- perspective drawings of conceptual design
[NASA-CASE-XMF-02263] c05 N74-10907
Supersonic fan blading --- noise reduction in turbofan engines
[NASA-CASE-LEW-11402-1] c07 N74-28226
Aircraft design concept
[NASA-CASE-LAR-11852-1] c05 N77-15027
An improved free wing for an aircraft
[NASA-CASE-FRC-10092-1] c05 N77-31135

AERODYNAMIC HEATING
Development of thermal insulation system for wing and control surfaces of hypersonic aircraft and reentry vehicles
[NASA-CASE-XLA-00892] c33 N71-17897
Heat flux sensor adapted for mounting on aircraft or spacecraft to measure aerodynamic heat flux inflow to aircraft skin
[NASA-CASE-XFR-03802] c33 N71-23085
Ablative heat shield for protection from aerodynamic heating of reentry spacecraft
[NASA-CASE-MSC-12143-1] c33 N72-17947

AERODYNAMIC LOADS
Directed fluid stream for propeller blade loading control
[NASA-CASE-XAC-00139] c02 N70-34856

AERODYNAMIC NOISE
Apparatus for reducing aerodynamic noise in a wind tunnel
[NASA-CASE-MFS-23099-1] c09 N76-23273

AERODYNAMIC STABILITY
Aerodynamically stable meteorological balloon using surface roughness effect
[NASA-CASE-XMF-04163] c02 N71-23007
Pressure sensor network for measuring liquid dynamic response in flight including fuel tank acceleration, liquid slosh amplitude, and fuel depth monitoring
[NASA-CASE-XLA-05541] c12 N71-26387
Spacecraft design with single point aerodynamic and hydrodynamic stability for emergency transport of men from space station to splashdown
[NASA-CASE-MSC-13281] c31 N72-18859
High lift aircraft --- with improved stability, control, performance, and noise characteristics
[NASA-CASE-LAR-11252-1] c05 N75-25914
Hingeless helicopter rotor with improved stability
[NASA-CASE-ARC-10807-1] c05 N77-17029

AERONAUTICAL ENGINEERING
Differential pressure cell insensitive to changes in ambient temperature and extreme overload
[NASA-CASE-XAC-00042] c14 N70-34816

AEROSOLS
Liquid aerosol dispenser with explosively driven piston to compress light gas to extremely high pressure
[NASA-CASE-MFS-20829] c12 N72-21310
Particulate and aerosol detector
[NASA-CASE-LAR-11434-1] c35 N76-22509
A method for aerosol analysis by thermoluminescence
[NASA-CASE-LAR-12046-1] c45 N77-17609

AEROSPACE ENGINEERING
Modifying existing solar cells for temperature control
[NASA-CASE-NPO-10109] c03 N71-11049
Metallic film diffusion for boundary lubrication in aerospace engineering
[NASA-CASE-XLE-10337] c15 N71-24046
Soldering device particularly suited to making high quality wiring joints for aerospace engineering utilizing capillary attraction to regulate flow of solder
[NASA-CASE-XLA-08911] c15 N71-27214

AEROSPACE ENVIRONMENTS
High voltage insulators for direct current in acceleration system of electrostatic thrustor
[NASA-CASE-XLE-01902] c28 N71-10574
Metallic film diffusion into metal or ceramic surfaces for boundary lubrication in aerospace environments
[NASA-CASE-XLE-01765] c18 N71-10772
Preparation of inorganic solid film lubricants with long wear life and stability in aerospace environments
[NASA-CASE-XMF-03988] c15 N71-21403
Momentum-velocity analyzer for measuring minute space particles
[NASA-CASE-XMS-04201] c14 N71-22990
Metal alloy bearing materials for space applications
[NASA-CASE-XLE-05033] c15 N71-23810

Method and apparatus for adjusting thermal conductance in electronic components for space use
[NASA-CASE-XNP-05524] c33 N71-24876
Space environment simulator for testing spacecraft components under aerospace conditions
[NASA-CASE-NPO-10141] c11 N71-24964
High dc switch for causing abrupt, cyclic, decreases of current to operate under zero or varying gravity conditions
[NASA-CASE-LEW-10155-1] c09 N71-29035
Automatic biowaste sampling
[NASA-CASE-MSC-14640-1] c54 N76-14804
General purpose rocket furnace
[NASA-CASE-MFS-23460-1] c09 N77-12070

AEROSPACE MEDICINE
Piston device for producing known constant positive pressure within lungs by using thoracic muscles
[NASA-CASE-XMS-01615] c05 N70-41329
An improved cooling system for removing metabolic heat from an hermetically sealed spacesuit
[NASA-CASE-ARC-11059-1] c54 N77-14743

AEROSPACE VEHICLES
Aerospace configuration with low and high aspect ratio variability for high and low speed flight
[NASA-CASE-XLA-00142] c02 N70-33286
Landing pad assembly for aerospace vehicles
[NASA-CASE-XMF-02853] c31 N70-36654
Aerospace vehicle with variable planform for hypersonic and subsonic flight
[NASA-CASE-XLA-00805] c31 N70-38010
Development of resilient fastener for attaching skin of aerospace vehicles to permit movement of skin relative to framework
[NASA-CASE-XLA-01027] c31 N71-24035
Chemical spot tests for identification of titanium and titanium alloys used in aerospace vehicles
[NASA-CASE-LAR-10539-1] c17 N73-12547

AEROSPACEPLANES
Multistage aerospace craft --- perspective drawings of conceptual design
[NASA-CASE-XMF-02263] c05 N74-10907

AFTERBODIES
Afterburner-equipped jet engine nacelle with slotted configuration afterbody
[NASA-CASE-XLA-10450] c28 N71-21493

AFTERBURNING
Exhaust nozzle with afterburning for generating thrust
[NASA-CASE-XLA-00154] c28 N70-33374

AGING (MATERIALS)
Method of heat treating age-hardenable alloys
[NASA-CASE-XNP-01311] c26 N75-29236

AGRICULTURE
Solar-powered pump
[NASA-CASE-NPO-13567-1] c44 N76-29701

AILERONS
Device for controlling rotary potentiometer mounted on aircraft steering wheel or aileron control
[NASA-CASE-XAC-10019] c15 N71-23809

AIR
Gas purged dry box glove reducing permeation of air or moisture into dry box or isolator by diffusion through glove
[NASA-CASE-XLE-02531] c05 N71-23080
Superconducting magnetic field trapping device for producing magnetic field in air
[NASA-CASE-XNP-01185] c26 N73-28710

AIR CONDITIONING EQUIPMENT
Portable apparatus producing high velocity annular air column surrounding low velocity, filtered, superclean air central core for industrial clean room environmental control
[NASA-CASE-XMF-03212] c15 N71-22721
Air conditioning system and component therefore distributing air flow from opposite directions
[NASA-CASE-GSC-11445-1] c31 N74-27902

AIR COOLING
Modification and improvement of turbine blades for maximum cooling efficiency
[NASA-CASE-XLE-00092] c15 N70-33264

AIR FILTERS
Development of filter apparatus for gas separation and characteristics of filter cell support frame for improved operation
[NASA-CASE-MSC-12297] c14 N72-23457

AIR FLOW
Wind tunnel air flow modulating device and apparatus for selectively generating wave motion in wind tunnel airstream
[NASA-CASE-XLA-00112] c11 N70-33287
Photographing surface flow patterns on wind tunnel test models
[NASA-CASE-XLA-01353] c14 N70-41366
Method for maintaining good performance in gas turbine during air flow distortion
[NASA-CASE-LEW-10286-1] c28 N71-28915
Apparatus and method for generating large mass flow of high temperature air at hypersonic speeds
[NASA-CASE-LAR-10612-1] c12 N73-28144
Air conditioning system and component therefore distributing air flow from opposite directions
[NASA-CASE-GSC-11445-1] c31 N74-27902
Controlled separation combustor --- airflow distribution in gas turbine engines
[NASA-CASE-LEW-11593-1] c20 N76-14190
Method and apparatus for fluffing, separating, and cleaning fibers
[NASA-CASE-LAR-11224-1] c37 N76-18456
Smoke generator
[NASA-CASE-ARC-10905-1] c37 N77-13418

AIR INTAKES
Aeroflexible wing structure with air scoop for inflating stiffeners with ram air
[NASA-CASE-XLA-06095] c01 N69-39981
Reversed cowl flap inlet thrust augmentor --- with adjustable airfoil
[NASA-CASE-ARC-10754-1] c07 N75-24736

AIR LOCKS
Spacecraft air lock system to provide ingress and egress of astronaut without subjecting vehicular environment to vacuum of space
[NASA-CASE-XLA-02050] c31 N71-22968
System for removing and repairing spacecraft control thrusters by use of portable air locks
[NASA-CASE-MFS-20325] c28 N71-27095
Airlock for waste transferal from pressurized enclosure aboard space vehicle to waste receiver at negative pressure
[NASA-CASE-MFS-20922] c31 N72-20840
Airlock
[NASA-CASE-MFS-20922-1] c18 N74-22136
Apparatus for inserting and removing specimens from high temperature vacuum furnaces
[NASA-CASE-LAR-10841-1] c31 N74-27900

AIR POLLUTION
Analytical photoionization mass spectrometer with argon gas filter between light source and monochrometer
[NASA-CASE-LAR-10180-1] c06 N71-13461
Contamination free separation nut eliminating combustion products from ambient surroundings generated by squib firing
[NASA-CASE-XGS-01971] c15 N71-15922
Monitoring atmospheric pollutants with a heterodyne radiometer transmitter-receiver
[NASA-CASE-NPO-11919-1] c35 N74-11284
Fluorescence detector for monitoring atmospheric pollutants
[NASA-CASE-NPO-13231-1] c45 N75-27585
Stack plume visualization system
[NASA-CASE-LAR-11675-1] c45 N76-17656
Indicator providing continuous indication of the presence of a specific pollutant in air
[NASA-CASE-NPO-13474-1] c45 N76-21742
Method for detecting pollutants --- through chemical reactions and heat treatment
[NASA-CASE-LAR-11405-1] c45 N76-31714
Automotive gas turbine fuel control
[NASA-CASE-LEW-12785-1] c37 N77-13426
Combustion engine --- for air pollution control
[NASA-CASE-NPO-13671-1] c37 N77-31497

AIR PURIFICATION
Developing high pressure gas purification and filtration system for use in test operations of space vehicles
[NASA-CASE-MFS-12806] c14 N71-17588
Portable apparatus producing high velocity annular air column surrounding low velocity, filtered, superclean air central core for industrial clean room environmental control
[NASA-CASE-XMF-03212] c15 N71-22721

AIR SAMPLING
Pressure probe for sensing ambient static air pressures
[NASA-CASE-XLA-00481] c14 N70-36824
Sampler of gas borne particles
[NASA-CASE-NPO-13396-1] c35 N76-18401
AIR TRAFFIC CONTROL
Traffic control system for supersonic transports using synchronous satellite for data relay between vehicles and ground station
[NASA-CASE-GSC-10087-1] c02 N71-19287
Satellite aided aircraft collision avoidance system effective for large number of aircraft
[NASA-CASE-ERC-10090] c21 N71-24948
System and method for position locating for air traffic control involving supersonic transports
[NASA-CASE-GSC-10087-3] c07 N72-12080
AIRBORNE EQUIPMENT
Inflatable radar reflector unit - lightweight, highly reflective to electromagnetic radiation, and adaptable for erection and deployment with minimum effort and time
[NASA-CASE-XMS-00893] c07 N70-40063
AIRBORNE/SPACEBORNE COMPUTERS
Logic circuit to ripple add and subtract binary counters for spaceborne computers
[NASA-CASE-XGS-04766] c08 N71-18602
Shared memory for a fault-tolerant computer
[NASA-CASE-NPO-13139-1] c60 N76-21914
AIRCRAFT
Pilot warning indicator system of intruder aircraft
[NASA-CASE-ERC-10226-1] c14 N73-16483
AIRCRAFT ACCIDENTS
Satellite aided aircraft collision avoidance system effective for large number of aircraft
[NASA-CASE-ERC-10090] c21 N71-24948
AIRCRAFT ANTENNAS
Thin conformal antenna array for microwave power conversion
[NASA-CASE-NPO-13886-1] c32 N77-11269
AIRCRAFT APPROACH SPACING
Economical satellite aided vehicle avoidance system for preventing midair collisions
[NASA-CASE-ERC-10419] c21 N72-21631
AIRCRAFT COMPARTMENTS
Aircraft design concept
[NASA-CASE-LAR-11852-1] c05 N77-15027
AIRCRAFT CONFIGURATIONS
Variable sweep wing configuration for supersonic aircraft
[NASA-CASE-XLA-00230] c02 N70-33255
Television simulation for aircraft and space flight
[NASA-CASE-XFR-03107] c09 N71-19449
Design of dual fuselage aircraft with pivoting wing and horizontal stabilizer to permit yawing of wing in flight for high speed operation
[NASA-CASE-ARC-10470-1] c02 N73-26005
Development of aircraft configuration for reduction of jet aircraft noise by exhausting engine gases over upper surface of wing
[NASA-CASE-LAR-11087-1] c02 N73-26008
Variable dihedral shuttle orbiter
[NASA-CASE-LAR-10706-2] c05 N77-31132
AIRCRAFT CONTROL
Development and characteristics of control system for flexible wings
[NASA-CASE-XLA-06958] c02 N71-11038
Development of attitude control system for vertical takeoff aircraft using reaction nozzles displaced from various axes of aircraft
[NASA-CASE-XAC-08972] c02 N71-20570
Device for controlling rotary potentiometer mounted on aircraft steering wheel or aileron control
[NASA-CASE-XAC-10019] c15 N71-23809
Direct lift control system having flaps with slots adjacent to their leading edge and particularly adapted for lightweight aircraft
[NASA-CASE-LAR-10249-1] c02 N71-26110
Supersonic or hypersonic vehicle control system comprising elevons with hinge line sweep and free of adverse aerodynamic cross coupling
[NASA-CASE-XLA-08967] c02 N71-27088
Development of aircraft control system with high performance electrically controlled and mechanically operated hydraulic valves for precise flight operation
[NASA-CASE-XAC-00048] c02 N71-29128
Development of thrust control system for application to control of aircraft and spacecraft
[NASA-CASE-MSC-13397-1] c21 N72-25595
Aircraft control system for rotary wing aircraft
[NASA-CASE-ERC-10439] c02 N73-19004
Situational display system of cathode ray tubes to assist pilot in aircraft control
[NASA-CASE-ERC-10350] c14 N73-20474
Development of aerodynamic control system to control flutter over large range of oscillatory frequencies using stability augmentation techniques
[NASA-CASE-LAR-10682-1] c02 N73-26004
Integrated lift/drag controller for aircraft
[NASA-CASE-ARC-10456-1] c05 N75-12930
High lift aircraft --- with improved stability, control, performance, and noise characteristics
[NASA-CASE-LAR-11252-1] c05 N75-25914
Vortex-lift roll-control device
[NASA-CASE-LAR-11868-2] c08 N77-31176
AIRCRAFT DESIGN
Design of supersonic aircraft with novel fixed, swept wing planform
[NASA-CASE-XLA-04451] c02 N71-12243
Design of dual fuselage aircraft with pivoting wing and horizontal stabilizer to permit yawing of wing in flight for high speed operation
[NASA-CASE-ARC-10470-1] c02 N73-26005
Multistage aerospace craft --- perspective drawings of conceptual design
[NASA-CASE-XMF-02263] c05 N74-10907
High lift aircraft --- with improved stability, control, performance, and noise characteristics
[NASA-CASE-LAR-11252-1] c05 N75-25914
Oblique-wing supersonic aircraft
[NASA-CASE-ARC-10470-3] c05 N76-29217
Supersonic transport --- aircraft design
[NASA-CASE-LAR-11932-1] c05 N76-31219
Aircraft design concept
[NASA-CASE-LAR-11852-1] c05 N77-15027
AIRCRAFT DETECTION
Surface based altitude measuring system for accurately measuring altitude of airborne vehicle
[NASA-CASE-ERC-10412-1] c09 N73-12211
AIRCRAFT ENGINES
Noise suppressor --- for turbofan engine by incorporating annular acoustically porous elements in exhaust and inlet ducts
[NASA-CASE-LAR-11141-1] c07 N74-32418
Auxiliary power system for activity cooled aircraft
[NASA-CASE-LAR-11626-1] c34 N77-12332
Dual cycle aircraft turbine engine
[NASA-CASE-LAR-11310-1] c07 N77-28118
AIRCRAFT EQUIPMENT
Development of radiometric sensor to warn aircraft pilots of region of clear air turbulence along flight path
[NASA-CASE-ERC-10081] c14 N72-28437
AIRCRAFT GUIDANCE
Terminal guidance system --- for guiding aircraft into preselected altitude and/or heading at terminal point
[NASA-CASE-FRC-10049-1] c04 N74-13420
AIRCRAFT HAZARDS
Deflector for preventing objects from entering nacelle inlets of jet aircraft
[NASA-CASE-XLE-00388] c28 N70-34788
AIRCRAFT HYDRAULIC SYSTEMS
Variable-orifice hydraulic mechanism for aircraft gas turbine engine fuel control
[NASA-CASE-LEW-11187-1] c28 N73-19793
AIRCRAFT INSTRUMENTS
Aircraft instrument for indicating malfunctions during takeoff
[NASA-CASE-XLA-00100] c14 N70-36807
Pressure probe for sensing ambient static air pressures
[NASA-CASE-XLA-00481] c14 N70-36824
Aircraft indicator for pilot control of takeoff roll, climbout path and verticle flight path in poor visibility conditions
[NASA-CASE-XLA-00487] c14 N70-40157

Optical projector system for establishing optimum arrangement of instrument displays in aircraft, spacecraft, other vehicles, and industrial instrument consoles
[NASA-CASE-XNP-03853] c23 N71-21882
Combined optical attitude and altitude indicating instrument for use in aircraft or spacecraft
[NASA-CASE-XLA-01907] c14 N71-23268
Aircraft horizon and vertical indicator
[NASA-CASE-ERC-10392] c21 N73-14692
G-load measuring and indicator apparatus
[NASA-CASE-ARC-10806-1] c35 N75-29381
Magnetic heading reference
[NASA-CASE-LAR-11387-1] c04 N76-20114
Turbulence intensity indicator
[NASA-CASE-LAR-11833-1] c06 N76-31229
Aircraft-mounted crash-activated transmitter device
[NASA-CASE-MFS-16609-3] c03 N76-32140

AIRCRAFT LANDING
Aerodynamic configuration for aircraft capable of high speed flight and low drag for low speed takeoff or landing upon presently existing airfields
[NASA-CASE-XLA-00806] c02 N70-34858
Magnetic method for detection of aircraft position relative to runway
[NASA-CASE-ARC-10179-1] c21 N72-22619
Integrated lift/drag controller for aircraft
[NASA-CASE-ARC-10456-1] c05 N75-12930
Vehicle simulator binocular multiplanar visual display system
[NASA-CASE-ARC-10808-1] c09 N76-24280

AIRCRAFT LAUNCHING DEVICES
Rotating launch device for a remotely piloted aircraft
[NASA-CASE-ARC-10979-1] c09 N77-19076

AIRCRAFT MANEUVERS
G-load measuring and indicator apparatus
[NASA-CASE-ARC-10806-1] c35 N75-29381

AIRCRAFT MODELS
Free flight suspension system for use with aircraft models in wind tunnel tests
[NASA-CASE-XLA-00939] c11 N71-15926
Variable geometry wind tunnel for testing aircraft models at subsonic speeds
[NASA-CASE-XLA-07430] c11 N72-22246
Deploy/release system --- model aircraft flight control
[NASA-CASE-LAR-11575-1] c02 N76-16014

AIRCRAFT NOISE
Instrumentation for measuring aircraft noise and sonic boom
[NASA-CASE-LAR-11476-1] c07 N76-27232

AIRCRAFT PERFORMANCE
Development of auxiliary lifting system to provide ferry capability for entry vehicles
[NASA-CASE-LAR-10574-1] c11 N73-13257

AIRCRAFT PILOTS
Apparatus for applying simulator g-forces to an arm of an aircraft simulator pilot
[NASA-CASE-LAR-10550-1] c09 N74-30597

AIRCRAFT SAFETY
Aircraft instrument for indicating malfunctions during takeoff
[NASA-CASE-XLA-00100] c14 N70-36807
Development and operating principles of collision warning system for aircraft accident prevention
[NASA-CASE-HQN-10703] c21 N73-13643
Deployable flexible ventral fins for use as an emergency spin recovery device in aircraft
[NASA-CASE-LAR-10753-1] c08 N74-30421

AIRCRAFT STABILITY
Mechanical stabilization system for VTOL aircraft
[NASA-CASE-XLA-06339] c02 N71-13422
Development of aerodynamic control system to control flutter over large range of oscillatory frequencies using stability augmentation techniques
[NASA-CASE-LAR-10682-1] c02 N73-26004

AIRCRAFT STRUCTURES
Fatigue testing device applying random discrete load levels to test specimen and applicable to aircraft structures
[NASA-CASE-XLA-02131] c32 N70-42003
Heat flux sensor adapted for mounting on aircraft or spacecraft to measure aerodynamic heat flux inflow to aircraft skin
[NASA-CASE-XFR-03802] c33 N71-23085
Three-axis adjustable loading structure
[NASA-CASE-FRC-10051-1] c35 N74-13129
Transparent fire resistant polymeric structures
[NASA-CASE-ARC-10813-1] c27 N76-16230
Wingtip vortex dissipator for aircraft
[NASA-CASE-LAR-11645-1] c02 N77-10001

AIRCRAFT WAKES
Vortex attenuation method --- for multi-engine aircraft
[NASA-CASE-LAR-12034-1] c02 N77-22045

AIRFOIL FENCES
Smokestack mounted airfoil
[NASA-CASE-LAR-11669-1] c34 N76-13419

AIRFOILS
Electric analog for measuring induced drag on nonplanar airfoils
[NASA-CASE-XLA-00755] c01 N71-13410
Electric analog for measuring induced drag on nonplanar airfoils
[NASA-CASE-XLA-05828] c01 N71-13411
Miniature hydraulic actuator --- for control surfaces on airfoils
[NASA-CASE-LAR-11522-1] c34 N74-34881
Flow separation detector
[NASA-CASE-ARC-11046-1] c35 N76-28535
Surface finishing --- of metal airfoils by adhesive bonding
[NASA-CASE-MSC-12631-2] c05 N77-31131

AIRFRAMES
Design of dual fuselage aircraft with pivoting wing and horizontal stabilizer to permit yawing of wing in flight for high speed operation
[NASA-CASE-ARC-10470-1] c02 N73-26005

AIRSPEED
Aerodynamic configuration for aircraft capable of high speed flight and low drag for low speed takeoff or landing upon presently existing airfields
[NASA-CASE-XLA-00806] c02 N70-34858

ALCOHOLS
New trifunctional alcohol derived from trimer acid and novel method of preparation
[NASA-CASE-NPO-10714] c06 N69-31244
Cooling and radiation protection of ruby lasers using copper sulfate solution in alcohol
[NASA-CASE-MFS-20180] c16 N72-12440

ALDEHYDES
Direct synthesis of polymeric schiff bases from two amines and two aldehydes
[NASA-CASE-XMF-08655] c06 N71-11239
Synthesis of azine polymers for heat shields by azine-aromatic aldehyde reaction
[NASA-CASE-XMF-08656] c06 N71-11242
Synthesis of aromatic diamines and dialdehyde polymers using Schiff base
[NASA-CASE-XMF-03074] c06 N71-24740

ALIGNMENT
Centering device with ultrafine adjustment for use with roundness measuring apparatus
[NASA-CASE-XMF-00480] c14 N70-39898
Portable device for aligning surfaces of two adjacent wall or sheet sections for joining at point of junction
[NASA-CASE-XMF-01452] c15 N70-41371
Electro-optical/computer system for aligning large structural members and maintaining correct position
[NASA-CASE-XNP-02029] c14 N70-41955
Electrical and electromechanical trigonometric computation assembly and space vehicle guidance system for aligning perpendicular axes of two sets of three-axes coordinate references
[NASA-CASE-XMF-00684] c21 N71-21688
Description of device for aligning stacked sheets of paper for repetitive cutting
[NASA-CASE-XMS-04178] c15 N71-22798
Laser beam projector for continuous, precise alignment between target, laser generator, and astronomical telescope during tracking
[NASA-CASE-NPO-11087] c23 N71-29125
Measuring roll alignment of test body with respect to reference body
[NASA-CASE-GSC-10514-1] c14 N72-20379
Design of precision vertical alignment system using laser with gravitationally sensitive

cavity
[NASA-CASE-ARC-10444-1] c16 N73-33397
Spacecraft docking and alignment system --- using television camera system
[NASA-CASE-MSC-12559-1] c18 N76-14186
Method of constructing dished ion thruster grids to provide hole array spacing compensation
[NASA-CASE-LEW-11876-1] c20 N76-21276
Optical alignment device
[NASA-CASE-ARC-10932-1] c74 N76-22993
Precision alinement apparatus for cutting a workpiece
[NASA-CASE-LAR-11658-1] c37 N77-14478
Guide for a typewriter
[NASA-CASE-MFS-15218-1] c37 N77-19457

ALKALI METALS
Ultraviolet radiation resistant alkali-metal silicate coatings for temperature control of spacecraft
[NASA-CASE-XGS-04119] c18 N69-39979
Analytical test apparatus and method for determining oxygen content in alkali liquid metal
[NASA-CASE-XLE-01997] c06 N71-23527
Composition and production method of alkali metal silicate paint with ultraviolet reflection properties
[NASA-CASE-XGS-04799] c18 N71-24183
Design and characteristics of heat activated electric cell with anode made from one or more alkali metals and cathode made from oxidizing material
[NASA-CASE-LEW-11358] c03 N71-26084
Method for producing alkali metal dispersions of high purity
[NASA-CASE-XNP-08876] c17 N73-28573
Process for preparing higher oxides of the alkali and alkaline earth metals --- using radio frequency discharge sustained in oxygen
[NASA-CASE-ARC-10992-1] c25 N77-17178

ALKALINE BATTERIES
Method for determining state of charge of alkali batteries by using tritium as tracer
[NASA-CASE-XNP-01464] c03 N71-10728
Alkaline-type coulometer cell for primary charge control in secondary battery recharge circuits
[NASA-CASE-XGS-05434] c03 N71-20491
Flexible formulated plastic separators for alkaline batteries
[NASA-CASE-LEW-12363-1] c44 N76-19552
Inorganic-organic battery separator for alkaline batteries
[NASA-CASE-LEW-12649-1] c44 N76-31674

ALKALINE EARTH OXIDES
Process for preparing higher oxides of the alkali and alkaline earth metals --- using radio frequency discharge sustained in oxygen
[NASA-CASE-ARC-10992-1] c25 N77-17178

ALKYL COMPOUNDS
Preparation of fluorohydroxy ethers by reacting fluoroalkylene oxides with alkali salt of polyfluorcalkylene dicl
[NASA-CASE-MFS-10507] c06 N73-30101

ALLOYS
Brazing alloy adapted for brazing corrosion resistant steel to refractory metals, also for brazing refractory metals to other refractory metals
[NASA-CASE-XNP-03063] c17 N71-23365
Metal alloy bearing materials for space applications
[NASA-CASE-XLE-05033] c15 N71-23810
High thermal emittance black surface coatings and process for applying to metal and metal alloy surfaces used in radiative cooling of spacecraft
[NASA-CASE-XLA-06199] c15 N71-24875
Adjustable rigid mount for trihedral mirror formed of alloy with small coefficient of thermal expansion supporting screws and spring-biased plates
[NASA-CASE-XNP-08907] c23 N71-29123
Two-step diffusion welding process of unrecrystallized alloys
[NASA-CASE-LEW-11388-1] c15 N73-32358
Brazing alloy binder
[NASA-CASE-XMF-05868] c26 N75-27125
Brazing alloy
[NASA-CASE-XNP-03878] c26 N75-27127

ALPHANUMERIC CHARACTERS
X-Y alphanumeric character generator for oscilloscopes
[NASA-CASE-GSC-11582-1] c33 N75-19517

ALTERNATING CURRENT
Characteristics of high power, low distortion, alternating current power amplifier
[NASA-CASE-LAR-10218-1] c09 N70-34559
Frequency control network for current feedback oscillators converting dc voltage to ac or higher dc voltages
[NASA-CASE-GSC-10041-1] c10 N71-19418
Blood pressure measuring system for separately recording dc and ac pressure signals of Korotkoff sounds
[NASA-CASE-XMS-06061] c05 N71-23317
Solid state circuit for switching alternating current input signal as function of direct current gating transistor
[NASA-CASE-XNP-06505] c10 N71-24799
Device for voltage conversion using controlled pulse widths and arrangements to generate ac output voltage
[NASA-CASE-MFS-10068] c10 N71-25139
Inverters for changing direct current to alternating current
[NASA-CASE-XGS-06226] c10 N71-25950
Dc to ac to dc converter with transistor driven synchronous rectifiers
[NASA-CASE-GSC-11126-1] c09 N72-25253
Phase protection system for ac power lines
[NASA-CASE-MSC-17832-1] c33 N74-14956
Power factor control system for ac induction motors
[NASA-CASE-MFS-23280-1] c33 N76-28471

ALTITUDE
Combined optical attitude and altitude indicating instrument for use in aircraft or spacecraft
[NASA-CASE-XLA-01907] c14 N71-23268

ALTITUDE CONTROL
Ambient atmospheric pressure sensing device for determining altitude of flight vehicles
[NASA-CASE-XLA-00128] c15 N70-37925

ALUMINUM
Joining aluminum to stainless steel by bonding aluminum coatings onto titanium coated stainless steel and brazing aluminum to aluminum/titanium coated steel
[NASA-CASE-MFS-07369] c15 N71-20443
Low concentration alkaline solution treatment of aluminum with metal phosphate surface coatings to improve chemical bonding and reduce coating weight
[NASA-CASE-XLA-01995] c18 N71-23047
Etching aluminum alloys with aqueous solution containing sulfuric acid, hydrofluoric acid, and an alkali metal dischromate for adhesive bonding
[NASA-CASE-XMF-02303] c17 N71-23828
Process for producing dispersion strengthened nickel with aluminum comprising metallic matrices embedded with oxides or other hyperfine compounds
[NASA-CASE-XLE-06969] c17 N71-24142
Nickel plating onto etched aluminum castings
[NASA-CASE-XNP-04148] c17 N71-24830
Method of plating copper on aluminum to permit conventional soldering of structural aluminum bodies
[NASA-CASE-XLA-08966-1] c17 N71-25903
Heat activated emf cells with aluminum anode
[NASA-CASE-LEW-11359] c03 N71-28579
Heat activated cell with aluminum anode
[NASA-CASE-LEW-11359-2] c03 N72-20034
Method of preparing graphite reinforced aluminum composite
[NASA-CASE-MFS-21077-1] c24 N75-28135
Method of fluxless brazing and diffusion bonding of aluminum containing components
[NASA-CASE-MSC-14435-1] c37 N76-18455
Aluminum or copper substrate panel for selective absorption of solar energy and the method of producing said panel
[NASA-CASE-MFS-23518-1] c44 N77-31610

ALUMINUM ALLOYS
High strength aluminum casting alloy for cryogenic applications in aerospace engineering
[NASA-CASE-XMF-02786] c17 N71-20743

Etching aluminum alloys with aqueous solution containing sulfuric acid, hydrofluoric acid, and an alkali metal dischromate for adhesive bonding
[NASA-CASE-XMF-02303] c17 N71-23828
Method of producing complex aluminum alloy parts of high temper, and products thereof
[NASA-CASE-MSC-19693-1] c26 N76-29401
ALUMINUM COATINGS
Intermetallic chromium containing nickel aluminide for high temperature corrosion protection of stainless steels
[NASA-CASE-LEW-11267-1] c17 N73-32414
Preparing oxidizer coated metal fuel particles
[NASA-CASE-NPO-11975-1] c28 N74-33209
Method of protecting the surface of a substrate --- by applying aluminide coating
[NASA-CASE-LEW-11696-1] c37 N75-13261
Duplex aluminized coatings
[NASA-CASE-LEW-11696-2] c26 N75-19408
Meteoroid impact position locator aid for manned space station
[NASA-CASE-LAR-10629-1] c35 N75-33367
ALUMINUM OXIDES
Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide
[NASA-CASE-GSC-11577-1] c37 N75-15992
ALUMINUM SILICATES
White paint production by heating impure aluminum silicate clay having low solar absorptance
[NASA-CASE-XNP-02139] c18 N71-24184
AMINES
Direct synthesis of polymeric schiff bases from two amines and two aldehydes
[NASA-CASE-XMF-08655] c06 N71-11239
Synthesis of schiff bases for heat shields by acetal amine reactions
[NASA-CASE-XMF-08652] c06 N71-11243
Polyimide foam for the thermal insulation and fire protection
[NASA-CASE-ARC-10464-1] c27 N74-12812
Automated analysis of oxidative metabolites
[NASA-CASE-ARC-10469-1] c25 N75-12086
AMINO ACIDS
Amino acid analysis
[NASA-CASE-NPO-12130-1] c25 N75-14844
AMMONIA
Solid state chemical source for ammonia beam masers
[NASA-CASE-XGS-01504] c16 N70-41578
AMMONIUM PERCHLORATES
Ammonium perchlorate composite propellant with organic Cu/II/ chelate catalytic additive
[NASA-CASE-LAR-10173-1] c27 N71-14090
AMPLIFICATION
Automatic measuring and recording of gain and zero drift characteristics of electronic amplifier
[NASA-CASE-XMS-05562-1] c09 N69-39986
Clamped amplifier circuit for horizon scanner enabling amplification and accurate measurement of specified parameters
[NASA-CASE-XGS-01784] c10 N71-20782
Diversity receiving system with diversity phase lock
[NASA-CASE-XGS-01222] c10 N71-20841
Design of active RC network capable of operating at high Q values with reduced sensitivity to gain amplification and number of passive components
[NASA-CASE-ARC-10042-2] c10 N72-11256
Amplifying circuit with constant current source for accumulator load and high gain voltage amplification
[NASA-CASE-NPO-11023] c09 N72-17155
AMPLIFIER DESIGN
Automatic gain control amplifier system
[NASA-CASE-XMS-05307] c09 N69-24330
Bio-isolated dc operational amplifier --- for bioelectric measurements
[NASA-CASE-ARC-10596-1] c33 N74-21851
Dual mode solid state power switch
[NASA-CASE-MFS-22880-2] c33 N77-31407
AMPLIFIERS
Development of stable electronic amplifier adaptable for monolithic and thin film construction
[NASA-CASE-XGS-02812] c09 N71-19466
Ear oximeter for monitoring blood oxygenation and pressure, pulse rate, and pressure pulse curve, using dc and ac amplifiers
[NASA-CASE-XAC-05422] c04 N71-23185
Comb type traveling wave maser amplifier for improved high gain broadband output
[NASA-CASE-NPO-10548] c16 N71-24831
Vibrophonocardiograph comprising low weight and small volume piezoelectric microphone with amplifier having high input impedance for high sensitivity and low frequency response
[NASA-CASE-XFR-07172] c05 N71-27234
Digital data handling circuits for pulse amplifiers
[NASA-CASE-XNP-01068] c10 N71-28739
Active RC filter networks and amplifiers for deep space magnetic field measurement
[NASA-CASE-XAC-05462-2] c10 N72-17171
Full wave modulator-demodulator amplifier apparatus --- for generating rectified output signal
[NASA-CASE-FRC-10072-1] c33 N74-14939
Automatic focus control for facsimile cameras
[NASA-CASE-LAR-11213-1] c35 N75-15014
Reflected-wave maser --- low noise amplifier
[NASA-CASE-NPO-13490-1] c36 N76-31512
AMPLITUDE DISTRIBUTION ANALYSIS
Monitoring system for signal amplitude ranges over predetermined time interval
[NASA-CASE-XMS-04061-1] c09 N69-39885
Cathode ray oscilloscope for analyzing electrical waveforms representing amplitude distribution of time function
[NASA-CASE-XNP-01383] c09 N71-10659
Analog to digital converter circuit for pulse height analysis
[NASA-CASE-XNP-00477] c08 N73-28045
AMPLITUDE MODULATION
Alternating current signal generator providing plurality of amplitude modulated output signals
[NASA-CASE-XNP-05612] c09 N69-21468
Development of demodulation system for removing amplitude modulation from two quadrature displaced data bearing signals
[NASA-CASE-XAC-04030] c10 N71-19472
Development of apparatus for amplitude modulation of diode laser by periodic discharge of direct current power supply
[NASA-CASE-XMS-04269] c16 N71-22895
Vibrating element electrometer producing high conversion gain by input current control of elements resonant frequency displacement amplitude
[NASA-CASE-XAC-02807] c09 N71-23021
Scanning signal phase and amplitude electronic control device with hybrid T waveguide junction
[NASA-CASE-NPO-10302] c10 N71-26142
High efficiency transformerless amplitude modulator coupled to RF power amplifier
[NASA-CASE-GSC-10668-1] c07 N71-28430
Gated compressor, distortionless signal limiter
[NASA-CASE-NPO-11820-1] c32 N74-19788
Amplitude steered array
[NASA-CASE-GSC-11446-1] c33 N74-20860
Stark-effect modulation of CO2 laser with NH2D
[NASA-CASE-NPO-11945-1] c36 N76-18427
AMPLITUDES
Circuits for amplitude limiting of random noise inputs
[NASA-CASE-NPO-10169] c10 N71-24844
ANALOG CIRCUITS
Electric network for monitoring temperatures, detecting critical temperatures, and indicating critical time duration
[NASA-CASE-XMF-01097] c10 N71-16058
Automatic closed circuit television arc guidance control for welding joints
[NASA-CASE-MFS-13046] c07 N71-19433
Electronic divider and multiplier for analog electric signals
[NASA-CASE-XFR-05637] c09 N71-19480
Continuous Fourier transform method and apparatus --- for the analysis of simultaneous analog signal components
[NASA-CASE-ARC-10466-1] c60 N75-13539
Electronic analog divider
[NASA-CASE-LEW-11881-1] c33 N77-17354
ANALOG COMPUTERS
Analog spatial maneuver computer with three

output angles for obtaining desired spatial attitude
[NASA-CASE-GSC-10880-1] c08 N72-11172
ANALOG DATA
Data compression processor for monitoring analog signals by sampling procedure
[NASA-CASE-NPO-10068] c08 N71-19288
Wide range analog data compression system
[NASA-CASE-XGS-02612] c08 N71-19435
Analog signal to discrete time converter
[NASA-CASE-ERC-10048] c09 N72-25251
Digital plus analog output encoder
[NASA-CASE-GSC-12115-1] c62 N76-31946
Velocity measurement system
[NASA-CASE-MFS-23363-1] c35 N76-33469
ANALOG SIMULATION
Apparatus for simulating optical transmission links
[NASA-CASE-GSC-11877-1] c74 N76-18913
ANALOG TO DIGITAL CONVERTERS
Conversion system for increasing resolution of analog to digital converters
[NASA-CASE-XAC-00408] c08 N70-40125
Analog to digital converter for converting pulses to frequencies
[NASA-CASE-XLA-00670] c08 N71-12501
Describing continuous analog to digital converter with parallel digital output and nonlinear feedback
[NASA-CASE-XAC-04031] c08 N71-18594
Voltage drift compensation circuit for analog-to-digital converter
[NASA-CASE-XNP-04780] c08 N71-19687
Development and characteristics of fluid oscillator analog to digital converter with variable frequency controlled by signal passing through conditioning circuit
[NASA-CASE-LEW-10345-1] c10 N71-25899
Data acquisition system for converting displayed analog signal to digital values
[NASA-CASE-NPO-10344] c10 N71-26544
Apparatus for automatically testing analog to digital converters for open and short circuits
[NASA-CASE-XLA-06713] c14 N71-28991
Wide range analog to digital converter with variable gain amplifier
[NASA-CASE-NPO-11018] c08 N72-21200
Analog to digital converter using offset voltage to eliminate errors
[NASA-CASE-MSC-13110-1] c08 N72-22163
Analog to digital converter analyzing system
[NASA-CASE-NPO-10560] c08 N72-22166
Control and information system for digital telemetry data using analog converter to digitize sensed parameter values
[NASA-CASE-NPO-11016] c08 N72-31226
Nonrecursive counting digital filter containing shift register
[NASA-CASE-NPO-11821-1] c08 N73-26175
Analog to digital converter circuit for pulse height analysis
[NASA-CASE-XNP-00477] c08 N73-28045
Analog to digital converter
[NASA-CASE-NPO-13385-1] c33 N76-18345
Analog to digital converter for two-dimensional radiant energy array computers
[NASA-CASE-GSC-11839-3] c60 N77-32731
ANALYZERS
Mixed liquid and vapor phase analyzer design with thermocouples for relative heat transfer measurement
[NASA-CASE-NPO-10691] c14 N71-26199
Automated fluid chemical analyzer for microchemical analysis of small quantities of liquids by use of selected reagents and analyzer units
[NASA-CASE-XNP-09451] c06 N71-26754
Micrometeoroid analyzer using arrays of interconnected capacitors and ion detector
[NASA-CASE-ARC-10443-1] c14 N73-20477
NDIR gas analyzer based on absorption modulation ratios for known and unknown samples
[NASA-CASE-ARC-10802-1] c35 N75-30502
Cosmic dust analyzer
[NASA-CASE-MSC-13802-2] c35 N76-15431
ANEMOMETERS
Anemometer with braking mechanism to prevent rotation of wind driven elements
[NASA-CASE-XNP-05224] c14 N71-23726
Maxometers for measuring peak wind speeds during severe environmental conditions
[NASA-CASE-MFS-20916] c14 N73-25460
ANGIOGRAPHY
Contour detector and data acquisition system for the left ventricular outline
[NASA-CASE-ARC-10985-1] c52 N77-17701
ANGLE OF ATTACK
Angle detector
[NASA-CASE-ARC-11036-1] c35 N77-11364
ANGLES (GEOMETRY)
Gage for measuring internal angle of flare on end of tube
[NASA-CASE-XNP-04415] c14 N71-24693
Optical device containing rotatable prism and reflecting mirror for generating precise angles
[NASA-CASE-XGS-04173] c19 N71-26674
Rotating raster generator
[NASA-CASE-FRC-10071-1] c32 N74-20813
ANGULAR ACCELERATION
Strain gage accelerometer for angular acceleration measurement
[NASA-CASE-XMS-05936] c14 N70-41682
ANGULAR CORRELATION
Device for determining relative angular position of spacecraft and radiating celestial body
[NASA-CASE-GSC-11444-1] c14 N73-28490
ANGULAR MOMENTUM
Stretch Yo-Yo mechanism for reducing initial spin rate of space vehicle
[NASA-CASE-XGS-00619] c30 N70-40016
ANGULAR RESOLUTION
Characteristics and performance of electrical system to determine angular rotation
[NASA-CASE-XNP-00447] c14 N70-33179
ANGULAR VELOCITY
Describing angular position and velocity sensing apparatus
[NASA-CASE-XGS-05680] c14 N71-17585
ANHYDRIDES
Perfluoro alkylene dioxy-bis-(4-phthalic anhydrides and oxy-bis-(perfluoroalkyleneoxyphathalic anhydrides
[NASA-CASE-MFS-22356-1] c23 N75-30256
ANILINE
Synthesis of high purity dianilinosilanes
[NASA-CASE-XNP-06409] c06 N71-23230
ANIMALS
Automatic real-time pair-feeding system for animals
[NASA-CASE-ARC-10302-1] c51 N74-15778
Tread drum for animals
[NASA-CASE-ARC-10917-1] c37 N76-20485
ANISOTROPIC MEDIA
Hybrid composite laminate structures
[NASA-CASE-LEW-12118-1] c24 N77-27188
ANNEALING
Recovering efficiency of solar cells damaged by environmental radiation through thermal annealing
[NASA-CASE-XGS-04047-2] c03 N72-11062
ANNULAR NOZZLES
Large area-ratio nozzles for rocket motor thrust chambers
[NASA-CASE-XLE-00145] c28 N70-36806
Electrostatic microthrust propulsion system with annular slit colloid thrustor
[NASA-CASE-GSC-10709-1] c28 N71-25213
ANNULAR PLATES
Bluff-shaped annular configuration for supersonic decelerator for reentry vehicles
[NASA-CASE-XLE-00222] c02 N70-37939
ANODES
Design and characteristics of heat activated electric cell with anode made from one or more alkali metals and cathode made from oxidizing material
[NASA-CASE-LEW-11358] c03 N71-26084
Storage battery comprising negative plates of a wedge shaped configuration --- for preventing shape change induced malfunctions
[NASA-CASE-NPO-11806-1] c44 N74-19693
Resistive anode image converter
[NASA-CASE-HQN-10876-1] c33 N76-27473
Rechargeable battery which combats shape change of the zinc anode
[NASA-CASE-HQN-10862-1] c44 N76-29699

Arc control in compact arc lamps
[NASA-CASE-NPO-10870-1] c33 N77-22386
ANODIC COATINGS
Anodizing method for providing metal surfaces with temperature reducing coatings against flames
[NASA-CASE-XLE-00035] c33 N71-29151
Anode for ion thruster
[NASA-CASE-LEW-12048-1] c20 N77-20162
ANTENNA ARRAYS
Monopole antenna system for maximum omnidirectional efficiency for use on satellites
[NASA-CASE-XLA-00414] c07 N70-38200
Radio receiver with array of independently steerable antennas for deep space communication
[NASA-CASE-XLA-00901] c07 N71-10775
Characteristics of antenna horn feeds consisting of central horn with overlapping peripheral horns
[NASA-CASE-GSC-10452] c07 N71-12396
Tracking antenna system with array for synchronous satellite or ground based radar
[NASA-CASE-GSC-10553-1] c07 N71-19854
Interferometric tuning acquisition and tracking radar antenna system
[NASA-CASE-XMS-09610] c07 N71-24625
Development of electronic circuit for combining input signals on two separate antennas to form two processed signals
[NASA-CASE-MSC-12205-1] c07 N71-27056
Antenna array at focal plane of reflector with coupling network for beam switching
[NASA-CASE-GSC-10220-1] c07 N71-27233
Pattern and impedance matching improvements in transversely polarized triaxial antenna
[NASA-CASE-XGS-02290] c07 N71-28809
Planar array circularly polarized antenna with wall slot excitation
[NASA-CASE-NPO-10301] c07 N72-11148
Vertically stacked collinear array of independently fed omnidirectional antennas for use in collision warning systems on commercial aircraft
[NASA-CASE-LAR-10545-1] c09 N72-21244
Circularly polarized antenna with linearly polarized pair of elements
[NASA-CASE-ERC-10214] c09 N72-31235
Development of phase control coupling for use with phased array antenna
[NASA-CASE-ERC-10285] c10 N73-16206
Plural beam antenna with parabolic reflectors
[NASA-CASE-GSC-11013-1] c09 N73-19234
Amplitude steered array
[NASA-CASE-GSC-11446-1] c33 N74-20860
Position determination systems --- using orbital antenna scan of celestial bodies
[NASA-CASE-MSC-12593-1] c17 N76-21250
Thin conformal antenna array for microwave power conversion
[NASA-CASE-NPO-13886-1] c32 N77-11269
Phase array antenna control
[NASA-CASE-MSC-14939-1] c33 N77-19320
Phase conjugation method and apparatus for an active retrodirective antenna array
[NASA-CASE-NPO-13641-1] c32 N77-24340
ANTENNA COMPONENTS
Digital servo controller --- for rotating antenna shaft
[NASA-CASE-KSC-10769-1] c33 N74-29556
ANTENNA DESIGN
Development and characteristics of low-noise multimode monopulse antenna feed system for use with microwave communication equipment
[NASA-CASE-XNP-01735] c07 N71-22750
Nose cone mounted heat resistant antenna comprising plurality of adjacent layers of silica not introducing paths of high thermal conductivity through ablative shield
[NASA-CASE-XMS-04312] c07 N71-22984
Development of electronic circuit for combining input signals on two separate antennas to form two processed signals
[NASA-CASE-MSC-12205-1] c07 N71-27056
Development and characteristics of extensible dipole antenna using deformable tubular metallic strip element
[NASA-CASE-HQN-00937] c07 N71-28979
Development of method for suppressing excitation of electromagnetic surface waves on dielectric converter antenna
[NASA-CASE-XLA-10772] c07 N71-28980
Target acquisition antenna feed with reflector system
[NASA-CASE-GSC-10064-1] c10 N72-22235
Collapsible high gain antenna which can be automatically expanded to operating state
[NASA-CASE-KSC-10392] c07 N73-26117
Dish antenna having switchable beamwidth --- with truncated concave ellipsoid subreflector
[NASA-CASE-GSC-11760-1] c33 N75-19516
Horn antenna having V-shaped corrugated slots
[NASA-CASE-LAR-11112-1] c32 N76-15330
Highly efficient antenna system using a corrugated horn and scanning hyperbolic reflector
[NASA-CASE-NPO-13568-1] c32 N76-21365
Furlable antenna --- antenna design
[NASA-CASE-NPO-13553-1] c33 N76-32457
Dual frequency circularly polarized microwave integrated antenna
[NASA-CASE-MSC-16100-1] c32 N77-15233
ANTENNA FEEDS
Design and operation of multi-feed cone Cassegrain antenna
[NASA-CASE-NPO-10539] c07 N71-11285
Characteristics of antenna horn feeds consisting of central horn with overlapping peripheral horns
[NASA-CASE-GSC-10452] c07 N71-12396
Target acquisition antenna feed with reflector system
[NASA-CASE-GSC-10064-1] c10 N72-22235
Multimode antenna feed system for microwave and broadband communication
[NASA-CASE-GSC-11046-1] c07 N73-28013
Low loss dichroic plate
[NASA-CASE-NPO-13171-1] c32 N74-11000
High efficiency multifrequency feed
[NASA-CASE-GSC-11909] c32 N74-20863
Single frequency, two feed dish antenna having switchable beamwidth
[NASA-CASE-GSC-11968-1] *c32 N76-15329
Reflex feed system for dual frequency antenna
[NASA-CASE-NPO-14022-1] c32 N77-24338
ANTENNA RADIATION PATTERNS
Broadband chokes and absorbers to reduce spurious radiation patterns of antenna array caused by support structures
[NASA-CASE-XMS-05303] c07 N69-27462
Multiple mode horn antenna with radiation pattern of equal beamwidths and suppressed sidelobes
[NASA-CASE-XNP-01057] c07 N71-15907
Monopulse scanning network for scanning volumetric antenna pattern
[NASA-CASE-GSC-10299-1] c09 N71-24804
High impact antennas with high radiating efficiency
[NASA-CASE-NPO-10231] c07 N71-26101
Pattern and impedance matching improvements in transversely polarized triaxial antenna
[NASA-CASE-XGS-02290] c07 N71-28809
Dielectric loaded aperture antenna with directive radiation pattern from waveguide
[NASA-CASE-LAR-11084-1] c09 N73-12216
System for locating lightning strokes by coordination of directional antenna signals
[NASA-CASE-KSC-10729-1] c09 N73-32110
Highly efficient antenna system using a corrugated horn and scanning hyperbolic reflector
[NASA-CASE-NPO-13568-1] c32 N76-21365
Dual frequency circularly polarized microwave integrated antenna
[NASA-CASE-MSC-16100-1] c32 N77-15233
ANTENNAS
Antenna design with self erecting mesh reflector
[NASA-CASE-XGS-09190] c31 N71-16102
High impact antennas with high radiating efficiency
[NASA-CASE-NPO-10231] c07 N71-26101
Collapsible antenna boom and coaxial transmission line having inflatable inner tube
[NASA-CASE-MFS-20068] c07 N71-27191
Conical reflector antenna with feed approximating line source
[NASA-CASE-NPO-10303] c07 N72-22127

ANTIFRICTION BEARINGS
Development of hybrid bearing lubrication system with combination of standard type lubrication and magnetic flux field for earth atmosphere and space environment operation
[NASA-CASE-XNP-01641] c15 N71-22997
Development of rolling element bearing for operation in ultrahigh vacuum environment
[NASA-CASE-XLE-09527-2] c15 N71-26189
Development of optical system for detecting defective components in rotating machinery with emphasis on bearing assemblies
[NASA-CASE-KSC-10752-1] c15 N73-27407
Fatigue life of hybrid antifriction bearings at ultrahigh speeds
[NASA-CASE-LEW-11152-1] c15 N73-32359
Hollow high strength rolling elements for antifriction bearings fabricated from preformed components
[NASA-CASE-LEW-11026-1] c15 N73-33383

ANTIGRAVITY
Anti-gravity device
[NASA-CASE-MFS-22758-1] c70 N75-26789

ANTIINFECTIVES AND ANTIBACTERIALS
Determination of antimicrobial susceptibilities of infected urines without isolation
[NASA-CASE-GSC-12046-1] c52 N77-26797

ANTIREFLECTION COATINGS
Silicon nitride coated, plastic covered solar cell
[NASA-CASE-LEW-11496-1] c44 N77-14580

ANVILS
Exponential horn, copper plate, magnetic hammer, and anvil in apparatus for making diamonds
[NASA-CASE-MFS-20698] c15 N72-20446

APERTURES
Apertured electrode focusing system for ion sources with nonuniform plasma density
[NASA-CASE-XNP-03332] c09 N71-10618
Threadless fastener apparatus comprising receiving apertures for plurality of articles, self-locked condition, and capable of using nonmalleable materials in both ends
[NASA-CASE-XFR-05302] c15 N71-23254
Apparatus for on-film optical recording of camera lens aperture and focus setting
[NASA-CASE-MSC-12363-1] c14 N73-26431
Method of forming aperture plate for electron microscope
[NASA-CASE-ARC-10448-2] c74 N75-12732
Method of making an apertured casting --- using duplicate mold
[NASA-CASE-LEW-11169-1] c37 N76-23570
Electron microscope aperture system
[NASA-CASE-ARC-10448-3] c35 N77-14408

APOLLO PROJECT
Intra- and extravehicular life support space suite for Apollo astronauts
[NASA-CASE-MSC-12609-1] c05 N73-32012

APOLLO SPACECRAFT
Low onset rate energy absorber in form of strut assembly for crew couch of Apollo command module
[NASA-CASE-MSC-12279-1] c15 N70-35679
Energy absorbing crew couch strut for Apollo command module
[NASA-CASE-MSC-12279] c15 N72-17450

APPLICATIONS OF MATHEMATICS
Apparatus for computing square roots
[NASA-CASE-XGS-04768] c08 N71-19437

APPROACH INDICATORS
Spectrally balanced chromatic landing approach lighting system
[NASA-CASE-ARC-10990-1] c04 N77-12031

AQUEOUS SOLUTIONS
Fuel system for thermal nuclear reactor which uses inorganic ion exchanger
[NASA-CASE-LEW-11645-2] c22 N73-28660
Anti-fog composition --- for prevention of fogging on surfaces such as space helmet visors and windshields
[NASA-CASE-MSC-13530-2] c23 N75-14834
Automated system for identifying traces of organic chemical compounds in aqueous solutions
[NASA-CASE-NPO-13063-1] c25 N76-18245

ARC DISCHARGES
Development of device to prevent high voltage arcing in electron beam welding
[NASA-CASE-XMF-08522] c15 N71-19486
Direct current powered self repeating plasma accelerator with interconnected annular and linear discharge channels
[NASA-CASE-XLA-03103] c25 N71-21693
Method and apparatus for nondestructive testing --- using high frequency arc discharges
[NASA-CASE-MFS-21233-1] c38 N74-15395
Sustained arc ignition system
[NASA-CASE-LEW-12444-1] c33 N77-28385

ARC HEATING
Magnetically diffused radial electric arc heater
[NASA-CASE-XLA-00330] c33 N70-34540
Electric arc device for minimizing electrode ablation and heating gases to supersonic or hypersonic wind tunnel temperatures
[NASA-CASE-XAC-00319] c25 N70-41628
Annular arc accelerator shock tube
[NASA-CASE-NPO-13528-1] c09 N77-10071

ARC JET ENGINES
Improving preformance of magnetoplasmadynamic arc rocket engine
[NASA-CASE-LEW-11180-1] c25 N73-25760

ARC LAMPS
Starting circuit design for initiating and maintaining arcs in vapor lamps
[NASA-CASE-XNP-01058] c09 N71-12540
Compact, high intensity arc lamp with internal magnetic field producing means
[NASA-CASE-NPO-11510-1] c33 N77-21315
Depressurization of arc lamps
[NASA-CASE-NPO-10790-1] c33 N77-21316
Arc control in compact arc lamps
[NASA-CASE-NPO-10870-1] c33 N77-22386

ARC WELDING
Emission spectroscopy method for contamination monitoring of inert gas metal arc welding
[NASA-CASE-XMF-02039] c15 N71-15871
Automatic closed circuit television arc guidance control for welding joints
[NASA-CASE-MFS-13046] c07 N71-19433
Development of device to prevent high voltage arcing in electron beam welding
[NASA-CASE-XMF-08522] c15 N71-19486
Development of apparatus for automatically changing carriage speed of welding machine to obtain constant speed of torch along work surface
[NASA-CASE-XMF-07069] c15 N71-23815
Grain refinement control in TIG arc welding
[NASA-CASE-MSC-19095-1] c37 N75-19683

ARCHITECTURE
Development of construction block in form of container folded from flat sheet and filled with solid material for architectural purposes
[NASA-CASE-MSC-12233-2] c32 N73-13921

ARM (ANATOMY)
Apparatus for applying simulator g-forces to an arm of an aircraft simulator pilot
[NASA-CASE-LAR-10550-1] c09 N74-30597
Orthotic arm joint --- for use in mechanical arms
[NASA-CASE-MFS-21611-1] c54 N75-12616
An improved controller arm for a remotely related slave arm
[NASA-CASE-ARC-11052-1] c54 N77-30751

ARMATURES
Design and development of electric motof with stationary field and armature windings which operates on direct current
[NASA-CASE-XGS-05290] c09 N71-25999
Solenoid valve including guide for armature and valve member
[NASA-CASE-GSC-10607-1] c15 N72-20442
Direct current motor including stationary field windings and stationary armature winding
[NASA-CASE-XGS-07805] c15 N72-33476

AROMATIC COMPOUNDS
Aromatic polyimide preparation --- with low softening temperatures
[NASA-CASE-LAR-11372-1] c27 N74-19772
Ultraviolet and thermally stable polymer compositions
[NASA-CASE-ARC-10592-1] c27 N74-21156
A method of preparing aromatic polyimides having uniquely low softening temperatures
[NASA-CASE-LAR-11828-1] c23 N75-29181
Ultraviolet and thermally stable polymer compositions
[NASA-CASE-ARC-10592-2] c27 N76-32315

ARTERIES
Arterial pulse wave pressure transducer
[NASA-CASE-GSC-11531-1] c52 N74-27566

ARTIFICIAL CLOUDS
Chemical system for releasing barium to create ion clouds in upper atmosphere and interplanetary space
[NASA-CASE-LAR-10670-1] c06 N73-30097
ARTIFICIAL GRAVITY
Artificial gravity system for simulating self-locomotion capability of astronauts in rotating environments
[NASA-CASE-XLA-03127] c11 N71-10776
Development of method for producing artificial gravity in manned spacecraft
[NASA-CASE-XNP-02595] c31 N71-21881
Spacecraft with artificial gravity and earthlike atmosphere
[NASA-CASE-LEW-11101-1] c31 N73-32750
ARTIFICIAL SATELLITES
Gravity gradient attitude control system with gravity gradiometer and reaction wheels for artificial satellite attitude control
[NASA-CASE-GSC-10555-1] c21 N71-27324
ASBESTOS
Reconstituted asbestos matrix --- for use in fuel or electrolysis cells
[NASA-CASE-MSC-12568-1] c24 N76-14204
ASPECT RATIO
Variable aspect ratio and variable sweep delta wing planforms for supersonic aircraft
[NASA-CASE-XLA-00221] c02 N70-33266
Supersonic aircraft configuration providing for variable aspect ratio and variable sweep wings
[NASA-CASE-XLA-00166] c02 N70-34178
Supersonic aircraft variable sweep wing planform for varying aspect ratio
[NASA-CASE-XLA-00350] c02 N70-38011
ASSEMBLIES
Multiple Belleville spring assembly with even load distribution
[NASA-CASE-XNP-00840] c15 N70-38225
Bearing seat usable in a gas turbine engine
[NASA-CASE-LEW-12477-1] c37 N77-32501
ASSEMBLING
Apparatus for assembling space structure
[NASA-CASE-MFS-23579-1] c12 N77-31213
ASTRONAUT LOCOMOTION
Artificial gravity system for simulating self-locomotion capability of astronauts in rotating environments
[NASA-CASE-XLA-03127] c11 N71-10776
Space suit with pressure-volume compensator system
[NASA-CASE-XLA-05332] c05 N71-11194
Equipotential space suits utilizing mechanical aids to minimize astronaut energy at bending joints
[NASA-CASE-LAR-10007-1] c05 N71-11195
Space suit using nonflexible material with low leakage and providing protection against thermal extremes, physical punctures, and radiation with high mobility articulation
[NASA-CASE-XAC-07043] c05 N71-23161
Development of improved convolute section for pressurized suits to provide high degree of mobility in response to minimum of applied torque
[NASA-CASE-XMS-09637-1] c05 N71-24730
Gravity environment simulation by locomotion and restraint aid for studying manual operation performance of astronauts at zero gravity
[NASA-CASE-ARC-10153] c05 N71-28619
A walking boot assembly
[NASA-CASE-ARC-11101-1] c54 N77-14742
ASTRONAUT MANEUVERING EQUIPMENT
Hand-held maneuvering unit for propulsion and attitude control of astronauts in zero or reduced gravity environment
[NASA-CASE-XMS-05304] c05 N71-12336
Space environmental work simulator with portions of space suit mounted to vacuum chamber wall
[NASA-CASE-XMF-07488] c11 N71-18773
Lightweight propulsion unit for movement of personnel and equipment across lunar surface
[NASA-CASE-MFS-20130] c28 N71-27585
ASTRONAUT PERFORMANCE
Gravity environment simulation by locomotion and restraint aid for studying manual operation performance of astronauts at zero gravity
[NASA-CASE-ARC-10153] c05 N71-28619
Spacesuit mobility joints
[NASA-CASE-ARC-11058-1] c54 N77-15641
ASTRONAUT TRAINING
Attitude control training device for astronauts permitting friction-free movement with five degrees of freedom
[NASA-CASE-XMS-02977] c11 N71-10746
Low and zero gravity simulator for astronaut training
[NASA-CASE-MFS-10555] c11 N71-19494
Apparatus for training astronaut crews to perform on simulated lunar surface under conditions of lunar gravity
[NASA-CASE-XMS-04798] c11 N71-21474
ASTRONAUTS
Three transceiver lunar emergency system to relay voice communication of astronaut
[NASA-CASE-MFS-21042] c07 N72-25171
Manual actuator --- for spacecraft exercising machines
[NASA-CASE-MFS-21481-1] c37 N74-18127
ASTRONAVIGATION
Guidance analyzer having suspended spacecraft simulating sphere for astronavigation
[NASA-CASE-XNP-09572] c14 N71-15621
ASTRONOMICAL PHOTOGRAPHY
Cameras for photographing meteors in selected sky area
[NASA-CASE-LAR-10226-1] c14 N73-19419
ASTRONOMICAL TELESCOPES
Light sensitive control system for automatically opening and closing dome of solar optical telescope
[NASA-CASE-MSC-10966] c14 N71-19568
Laser beam projector for continuous, precise alignment between target, laser generator, and astronomical telescope during tracking
[NASA-CASE-NPO-11087] c23 N71-29125
Star image motion compensator using telescope for maintaining fixed images
[NASA-CASE-LAR-10523-1] c14 N72-22444
System for the measurement of ultra-low stray light levels --- light shields and baffles
[NASA-CASE-MFS-23513-1] c74 N77-14842
Partial polarizer filter
[NASA-CASE-GSC-12225-1] c74 N77-30935
ATMOSPHERIC COMPOSITION
Design and development of two types of atmosphere sampling chambers
[NASA-CASE-NPO-11373] c13 N72-25323
Development and operation of apparatus for sampling particulates in gases in upper atmosphere
[NASA-CASE-HQN-10037-1] c14 N73-27376
Monitoring atmospheric pollutants with a heterodyne radiometer transmitter-receiver
[NASA-CASE-NPO-11919-1] c35 N74-11284
ATMOSPHERIC ENTRY
Designing spacecraft for flight into space, atmospheric reentry, and landing at selected sites
[NASA-CASE-XAC-02058] c02 N71-16087
Development of method for measuring electron density gradients of plasma sheath around space vehicle during atmospheric entry
[NASA-CASE-XLA-06232] c25 N71-20563
Orbital and entry tracking accessory for globes --- to provide range requirements for reentry vehicles to any landing site
[NASA-CASE-LAR-10626-1] c19 N74-21015
ATMOSPHERIC ENTRY SIMULATION
Crossed-field plasma accelerator for laboratory simulation of atmospheric reentry conditions
[NASA-CASE-XLA-00675] c25 N70-33267
Wind tunnel method for simulating flow fields around blunt vehicles entering planetary atmospheres without involving high temperatures
[NASA-CASE-LAR-11138] c12 N71-20436
ATMOSPHERIC PHYSICS
Development and characteristics of apparatus for measuring intensity of electric field in atmosphere
[NASA-CASE-KSC-10730-1] c14 N73-32318
ATMOSPHERIC RADIATION
Radiometric measuring system for solar activity and atmospheric attenuation and emission
[NASA-CASE-ERC-10276] c14 N73-26432
ATMOSPHERIC SCATTERING
Clear air turbulence detector
[NASA-CASE-MFS-21244-1] c36 N75-15028

ATMOSPHERIC TURBULENCE
Passive optical wind and turbulence remote detection system
[NASA-CASE-XMF-14032] c20 N71-16340
Focused laser Doppler velocimeter
[NASA-CASE-MFS-23178-1] c35 N77-10493
ATOMIZERS
Portable cryogenic cooling system design including turbine pump, cooling chamber, and atomizer
[NASA-CASE-NPO-10467] c23 N71-26654
ATS
Doppler frequency shift correction device for multiplex communication with Applications Technology Satellites
[NASA-CASE-XGS-02749] c07 N69-39978
ATTACHMENT
Silicon carbide backward diode with coated lead attachment
[NASA-CASE-ERC-10224-2] c09 N73-27150
ATTENUATORS
Rotary vane attenuator with two stators and intermediary rotor, using resistive and orthogonally disposed cards
[NASA-CASE-NPO-11418-1] c14 N73-13420
ATTITUDE (INCLINATION)
Analog spatial maneuver computer with three output angles for obtaining desired spatial attitude
[NASA-CASE-GSC-10880-1] c08 N72-11172
Spacecraft attitude sensing system design with narrow field of view sensor rotating about spacecraft x-y axis
[NASA-CASE-GSC-10890-1] c21 N73-30640
Interferometer mirror tilt correcting system
[NASA-CASE-NPO-13687-1] c35 N76-14433
ATTITUDE CONTROL
Visual target luminaires for retrofire attitude control
[NASA-CASE-XMS-12158-1] c31 N69-27499
Unitary three-axis controller for flight vehicles within or outside atmosphere
[NASA-CASE-XFR-00181] c21 N70-33279
Sensing method and device for determining orientation of space vehicle or satellite by using particle traps
[NASA-CASE-XGS-00466] c21 N70-34297
Attitude and propellant flow control system for liquid propellant rocket vehicles
[NASA-CASE-XMF-00185] c21 N70-34539
Spacecraft attitude control system using solar and earth sensors, gyroscopes, and jet actuators
[NASA-CASE-XNP-00465] c21 N70-35395
Attitude control device for space vehicles
[NASA-CASE-XNP-00294] c21 N70-36938
Attitude orientation control of spin stabilized final stage space vehicles, using horizon scanners
[NASA-CASE-XLA-00281] c21 N70-36943
Automatic ejection valve for attitude control and midcourse guidance of space vehicles
[NASA-CASE-XNP-00676] c15 N70-38996
Three-axis controller operated by hand-wrist motion for yaw, pitch, and roll control
[NASA-CASE-XAC-01404] c05 N70-41581
Attitude control training device for astronauts permitting friction-free movement with five degrees of freedom
[NASA-CASE-XMS-02977] c11 N71-10746
Photomultiplier detector of Canopus for spacecraft attitude control
[NASA-CASE-XNP-03914] c21 N71-10771
Automatic balancing device for use on frictionless supported attitude-controlled test platforms
[NASA-CASE-LAR-10774] c10 N71-13545
Development of spacecraft experiment pointing and attitude control system
[NASA-CASE-XLA-05464] c21 N71-14132
Development of attitude control system for spacecraft orientation
[NASA-CASE-XGS-04393] c21 N71-14159
System for aerodynamic control of rocket vehicles by secondary injection of fluid into nozzle exhaust stream
[NASA-CASE-XLA-01163] c21 N71-15582
Drive mechanism for operating reactance attitude control system for aerospace bodies
[NASA-CASE-XMF-01598] c21 N71-15583
Attitude detection system using stellar references for three-axis control and spin stabilized spacecraft
[NASA-CASE-XGS-03431] c21 N71-15642
Remote control device operated by movement of finger tips for manual control of spacecraft attitude
[NASA-CASE-XAC-02405] c09 N71-16089
Thrust and attitude control apparatus using jet nozzle in movable canard surface or fin configuration
[NASA-CASE-XLE-03583] c31 N71-17629
Attitude sensor with scanning mirrors for detecting orientation of space vehicle with respect to planet
[NASA-CASE-XLA-00793] c21 N71-22880
Development of attitude control system for sounding rocket stabilization during ballistic phase of flight
[NASA-CASE-XGS-01654] c31 N71-24750
Development of voice operated controller for controlling reaction jets of spacecraft
[NASA-CASE-XLA-04063] c31 N71-33160
Attitude sensor
[NASA-CASE-LAR-10586-1] c19 N74-15089
Temperature compensated digital inertial sensor --- circuit for maintaining inertial element of gyroscope or accelerometer at constant position
[NASA-CASE-NPO-13044-1] c35 N74-15094
Thrust augmented spin recovery device
[NASA-CASE-LAR-11970-1] c08 N77-22147
Sun direction detection system
[NASA-CASE-NPO-13722-1] c74 N77-22951
ATTITUDE GYROS
Spacecraft attitude control system using solar and earth sensors, gyroscopes, and jet actuators
[NASA-CASE-XNP-00465] c21 N70-35395
Attitude control system
[NASA-CASE-MFS-22787-1] c15 N77-10113
ATTITUDE INDICATORS
Photosensitive light source device for detecting unmanned spacecraft deviation from reference attitude
[NASA-CASE-XNP-00438] c21 N70-35089
Hand controller operable about three respectively perpendicular axes and capable of actuating signal generators for attitude control devices
[NASA-CASE-XMS-07487] c15 N71-23255
Combined optical attitude and altitude indicating instrument for use in aircraft or spacecraft
[NASA-CASE-XLA-01907] c14 N71-23268
Aircraft horizon and vertical indicator
[NASA-CASE-ERC-10392] c21 N73-14692
Attitude sensor
[NASA-CASE-LAR-10586-1] c19 N74-15089
Translatory shock absorber for attitude sensors
[NASA-CASE-MFS-22905-1] c19 N76-22284
ATTITUDE STABILITY
Dynamic precession damping of spin-stabilized vehicles by using rate gyroscope and angular accelerometer
[NASA-CASE-XLA-01989] c21 N70-34295
Attitude stabilizer for nonguided missile or vehicle with respect to trajectory
[NASA-CASE-ARC-10134] c30 N72-17873
AUDIO EQUIPMENT
Audio equipment for removing impulse noise from audio signals
[NASA-CASE-NPO-11631] c10 N73-12244
AUDIO FREQUENCIES
High efficiency transformerless amplitude modulator coupled to RF power amplifier
[NASA-CASE-GSC-10668-1] c07 N71-28430
Audio frequency analysis circuit for determining, displaying, and recording frequency of sweeping audio frequency signal
[NASA-CASE-NPO-11147] c14 N72-27408
AUDITORY PERCEPTION
Auditory display for the blind
[NASA-CASE-HQN-10832-1] c71 N74-21014
AUDITORY SIGNALS
Audio signal processing system for noise surge elimination at low amplitude audio input
[NASA-CASE-MSC-12223-1] c07 N71-26181
Audio equipment for removing impulse noise from audio signals

[NASA-CASE-NPO-11631] c10 N73-12244
AUDITORY STIMULI
Auditory display for the blind
[NASA-CASE-HQN-10832-1] c71 N74-21014
AUSTENITIC STAINLESS STEELS
Intermetallic chromium containing nickel aluminide for high temperature corrosion protection of stainless steels
[NASA-CASE-LEW-11267-1] c17 N73-32414
Device for measuring the ferrite content in an austenitic stainless-steel weld
[NASA-CASE-MFS-22907-1] c26 N76-18257
Reduced chromium stainless steel alloys
[NASA-CASE-LEW-12543-1] c26 N77-21217
AUTOCORRELATION
Linear three-tap feedback shift register
[NASA-CASE-NPO-10351] c08 N71-12503
Circuitry for developing autocorrelation function continuously within signal receiving period
[NASA-CASE-XNP-00746] c07 N71-21476
AUTOMATIC CONTROL
Automatic control of voltage supply to direct current motor
[NASA-CASE-XMS-04215-1] c09 N69-39987
Electro-optical/computer system for aligning large structural members and maintaining correct position
[NASA-CASE-XNP-02029] c14 N70-41955
Pulsed energy power system for application of combustible gases to turbine controlling ac voltage generator
[NASA-CASE-MSC-13112] c03 N71-11057
Automatic balancing device for use on frictionless supported attitude-controlled test platforms
[NASA-CASE-LAR-10774] c10 N71-13545
Computer controlled apparatus for maintaining welding torch angle and velocity during seam tracking
[NASA-CASE-XNP-03287] c15 N71-15607
Fluid leakage detection system with automatic monitoring capability
[NASA-CASE-LAR-10323-1] c12 N71-17573
Light sensitive control system for automatically opening and closing dome of solar optical telescope
[NASA-CASE-MSC-10966] c14 N71-19568
Welding torch with automatic speed controller using speed sensing wheel and closed servo system
[NASA-CASE-XNP-01730] c15 N71-23050
Microwave waveguide switch with rotor position control
[NASA-CASE-XNP-06507] c09 N71-23548
Automatically reciprocating, high pressure pump for use in spacecraft cryogenic propellants
[NASA-CASE-XNP-04731] c15 N71-24042
Automatic controlled thermal fatigue testing apparatus
[NASA-CASE-XLA-02059] c33 N71-24276
Automatically charging battery of electric storage cells
[NASA-CASE-XNP-04758] c03 N71-24605
Electric motor control system with pulse width modulation for providing automatic null seeking servo
[NASA-CASE-XNP-05195] c10 N71-24861
Indexing mechanism for cathode array substitution in electron beam tube
[NASA-CASE-NPO-10625] c09 N71-26182
Voltage range selection apparatus for sensing and applying voltages to electronic instruments without loading signal source
[NASA-CASE-XMS-06497] c14 N71-26244
Automated fluid chemical analyzer for microchemical analysis of small quantities of liquids by use of selected reagents and analyzer units
[NASA-CASE-XNP-09451] c06 N71-26754
Automatic control device for regulating inlet water temperature of liquid cooled spacesuit
[NASA-CASE-MSC-13917-1] c05 N72-15098
Optimal control system for automatic speed regulation of electric driven motor vehicle
[NASA-CASE-NPO-11210] c11 N72-20244
Plotter device for automatically drawing equipotential lines on sheet of resistance paper
[NASA-CASE-NPO-11134] c09 N72-21246
Automatic shunting of ion thrustor magnetic field when thrustor is not operating
[NASA-CASE-LEW-10835-1] c28 N72-22771
Automatic temperature control for liquid cooled space suit
[NASA-CASE-ARC-10599-1] c05 N73-26071
Speed control system for dc motor equipped with brushless Hall effect device
[NASA-CASE-MFS-20207-1] c09 N73-32107
Programmable physiological infusion
[NASA-CASE-ARC-10447-1] c52 N74-22771
Automatically operable self-leveling load table
[NASA-CASE-MFS-22039-1] c09 N75-12968
Automatic focus control for facsimile cameras
[NASA-CASE-LAR-11213-1] c35 N75-15014
Automatic fluid dispenser
[NASA-CASE-ARC-10820-1] c54 N75-32766
Traffic survey system --- using optical scanners
[NASA-CASE-MFS-22631-1] c66 N76-19888
Automotive gas turbine fuel control
[NASA-CASE-LEW-12785-1] c37 N77-13426
Method for producing solar energy panels by automation
[NASA-CASE-LEW-12541-1] c44 N77-22615
AUTOMATIC CONTROL VALVES
Ambient atmospheric pressure sensing device for determining altitude of flight vehicles
[NASA-CASE-XLA-00128] c15 N70-37925
Describing metal valve pintle with encapsulated elastomeric body
[NASA-CASE-MSC-12116-1] c15 N71-17648
Semitoroidal diaphragm cavitating flow control valve
[NASA-CASE-XNP-09704] c12 N71-18615
Reliability of automatic refilling valving device for cryogenic liquid systems
[NASA-CASE-NEO-11177] c15 N72-17453
Combined pressure regulator and shutoff valve
[NASA-CASE-NPO-13201-1] c37 N75-15050
AUTOMATIC FREQUENCY CONTROL
System for phase locking onto carrier frequency signal located within receiver bandpass
[NASA-CASE-XGS-04994] c09 N69-21543
Audio signal processing system for noise surge elimination at low amplitude audio input
[NASA-CASE-MSC-12223-1] c07 N71-26181
Automatic frequency control device for providing frequency reference for voltage controlled oscillator
[NASA-CASE-KSC-10393] c09 N72-21247
Self-tuning electronic filter for maintaining constant bandwidth and center frequency gain
[NASA-CASE-ARC-10264-1] c09 N73-20231
AUTOMATIC GAIN CONTROL
Automatic gain control amplifier system
[NASA-CASE-XMS-05307] c09 N69-24330
Automatic measuring and recording of gain and zero drift characteristics of electronic amplifier
[NASA-CASE-XMS-05562-1] c09 N69-39986
Self-tuning electronic filter for maintaining constant bandwidth and center frequency gain
[NASA-CASE-ARC-10264-1] c09 N73-20231
AUTOMATIC TEST EQUIPMENT
Automated visual sensitivity tester for determining visual field sensitivity and blind spot size
[NASA-CASE-ARC-10329-1] c05 N73-26072
Automatic microbial transfer device
[NASA-CASE-LAR-11354-1] c35 N75-27330
Visual examination apparatus
[NASA-CASE-HE-ARC-10329-2] c52 N76-30793
Automated clinical system for chromosome analysis
[NASA-CASE-NPO-13913-1] c52 N77-19750
AUTOMATION
Automated multi-level vehicle parking system
[NASA-CASE-NPO-13058-1] c37 N77-22480
AUTOMOBILE FUELS
Hydrogen rich gas generator
[NASA-CASE-NPO-13342-2] c44 N76-29700
AUTORADIOGRAPHY
Method of post-process intensification of images on photographic films and plates
[NASA-CASE-MFS-23461-1] c35 N76-26449
AUXILIARY POWER SOURCES
Auxiliary power system for activity cooled aircraft
[NASA-CASE-LAR-11626-1] c34 N77-12332

AXES (REFERENCE LINES)
Test fixture for measuring moment of inertia of irregularly shaped body with multiple axes
[NASA-CASE-XGS-01023] c14 N71-22992
Mechanism for restraining universal joints to prevent separation while allowing bending, angulation, and lateral offset in any position about axis
[NASA-CASE-XNP-02278] c15 N71-28951

AXES OF ROTATION
Unitary three-axis controller for flight vehicles within or outside atmosphere
[NASA-CASE-XFR-00181] c21 N70-33279
Proportional controller for regulating aircraft or spacecraft motion about three axes
[NASA-CASE-XAC-03392] c03 N70-41954
Electrical and electromechanical trigonometric computation assembly and space vehicle guidance system for aligning perpendicular axes of two sets of three-axes coordinate references
[NASA-CASE-XMF-00684] c21 N71-21688
Hand controller operable about three respectively perpendicular axes and capable of actuating signal generators for attitude control devices
[NASA-CASE-XMS-07487] c15 N71-23255

AXIAL COMPRESSION LOADS
Development and characteristics of device for indicating and recording magnitude of force applied in axial direction
[NASA-CASE-MSC-15626-1] c14 N72-25411

AXIAL FLOW TURBINES
Multistage multiple reentry axial flow reaction turbine with reverse flow reentry ducting
[NASA-CASE-XLE-00170] c15 N70-36412
Multistage, multiple reentry, single rotor, axial flow turbine
[NASA-CASE-XLE-00085] c28 N70-39895

AXIAL LOADS
Ball locking device which releases in response to small forces when subjected to high axial loads
[NASA-CASE-XMF-01371] c15 N70-41829
Method for measuring biaxial stress in a body subjected to stress inducing loads
[NASA-CASE-MFS-23299-1] c39 N77-28511

AXIAL STRESS
Axially and radially controllable magnetic bearing
[NASA-CASE-GSC-11551-1] c37 N76-18459
Method for measuring biaxial stress in a body subjected to stress inducing loads
[NASA-CASE-MFS-23299-1] c39 N77-28511

AZIMUTH
Tracking mount for laser telescope employed in tracking large rockets and space vehicles to give information regarding azimuth and elevation
[NASA-CASE-MFS-14017] c14 N71-26627
Long range laser traversing system
[NASA-CASE-GSC-11262-1] c36 N74-21091
Magnetic heading reference
[NASA-CASE-LAR-11387-2] c04 N77-19056

AZINES
Synthesis of azine polymers for heat shields by azine-aromatic aldehyde reaction
[NASA-CASE-XMF-08656] c06 N71-11242
Ultraviolet and thermally stable polymer compositions
[NASA-CASE-ARC-10592-1] c27 N74-21156
Ultraviolet and thermally stable polymer compositions
[NASA-CASE-ARC-10592-2] c27 N76-32315
Catalytic trimerization of aromatic nitriles and triayl-s-triazine ring cross-linked high temperature resistant polymers and copolymers made thereby
[NASA-CASE-LEW-12053-2] c23 N77-32244

AZO COMPOUNDS
Molding process for imidazopyrrolone polymers
[NASA-CASE-LAR-10547-1] c31 N74-13177

B

BACKGROUND NOISE
Electronic background suppression field scanning sensor for detecting point source targets
[NASA-CASE-XGS-05211] c07 N69-39980

BACKGROUND RADIATION
Method and apparatus for background signal reduction in opto-acoustic absorption measurement
[NASA-CASE-NPO-13683-1] c35 N77-14411

BACKSCATTERING
Apparatus for measuring backscatter and transmission characteristics of sample segment of large spherical passive satellites
[NASA-CASE-XGS-02608] c07 N70-41678
Mossbauer spectrometer radiation detector
[NASA-CASE-LAR-11155-1] c35 N74-15091

BACKUPS
Flexible backup bar for welding awkwardly shaped structures
[NASA-CASE-XMF-00722] c15 N70-40204
Reliable electrical element heater using plural wire system and backup power sources
[NASA-CASE-MFS-21462-1] c33 N74-14935

BACTERIA
Decontamination of petroleum products with honey
[NASA-CASE-XNP-03835] c06 N71-23499
Portable tester for monitoring bacterial contamination by adenosine triphosphate light reaction
[NASA-CASE-GSC-10879-1] c14 N72-25413
Enzymatic luminescent bioassay method for determining bacterial levels in urine
[NASA-CASE-GSC-11092-2] c04 N73-27052
Lyophilized spore dispenser
[NASA-CASE-LAR-10544-1] c37 N74-13178
Method of detecting and counting bacteria
[NASA-CASE-GSC-11917-2] c51 N76-29891
Detection of microbial infection in blood and antibiotic determinations
[NASA-CASE-GSC-12045-1] c52 N77-18733

BACTERIOLOGY
Detection of bacteria in biological fluids and foods
[NASA-CASE-GSC-11533-1] c14 N73-13435
Application of luciferase assay for ATP to antimicrobial drug susceptibility
[NASA-CASE-GSC-12039-1] c51 N77-22794
Determination of antimicrobial susceptibilities of infected urines without isolation
[NASA-CASE-GSC-12046-1] c52 N77-26797
Automated single-slide staining device
[NASA-CASE-LAR-11649-1] c51 N77-27677

BAFFLES
Light radiation direction indicator with baffle of two parallel grids
[NASA-CASE-XNP-03930] c14 N69-24331
Light baffle with oblate hemispheroid surface and shading flange
[NASA-CASE-NPO-10337] c14 N71-15604
Flexible ring slosh damping baffle for spacecraft fuel tank
[NASA-CASE-LAR-10317-1] c32 N71-16103
Submerged fuel tank baffles to prevent sloshing in liquid propellant rocket flight
[NASA-CASE-XLA-04605] c32 N71-16106
Floating baffle for tank drain
[NASA-CASE-KSC-10639] c15 N73-26472
System for the measurement of ultra-low stray light levels --- light shields and baffles
[NASA-CASE-MFS-23513-1] c74 N77-14842

BAGS
Fecal waste disposal container
[NASA-CASE-XMS-06761] c05 N69-23192

BALANCE
Thermoprotective device for balances
[NASA-CASE-XAC-00648] c14 N70-40400
Device for monitoring a change in mass in varying gravimetric environments
[NASA-CASE-MFS-21556-1] c35 N74-26945

BALANCING
Automatic balancing device for use on frictionless supported attitude-controlled test platforms
[NASA-CASE-LAR-10774] c10 N71-13545
Force balanced throttle valve for fuel control in rocket engines
[NASA-CASE-NPO-10808] c15 N71-27432
Static force balancing system attached to lifting body
[NASA-CASE-LAR-10348-1] c11 N73-12264

BALL BEARINGS
Combination guide and rotary bearing for freely moving shaft
[NASA-CASE-XLA-00013] c15 N71-29136

Method for reducing mass of ball bearings for long life operation at high speed
[NASA-CASE-LEW-10856-1] c15 N72-22490
Low mass rolling element bearing assembly
[NASA-CASE-LEW-11087-1] c15 N73-30458
Hollow rolling element bearings
[NASA-CASE-LEW-11087-3] c37 N74-21064
Drilled ball bearing with a one piece anti-tipping cage assembly
[NASA-CASE-LEW-11925-1] c37 N75-31446
Spherical bearing
[NASA-CASE-MFS-23447-1] c37 N77-11403

BALLAST (MASS)
Inflatable stabilizing system for use on life raft to reduce rocking and preclude capsizing
[NASA-CASE-MSC-12393-1] c02 N73-26006

BALLASTS (IMPEDANCES)
Apparatus for ballasting high frequency transistors
[NASA-CASE-XGS-05003] c09 N69-24318

BALLISTICS
Fiber modified polyurethane foam for ballistic protection
[NASA-CASE-ARC-10714-1] c27 N76-15310

BALLOON SOUNDING
Apparatus for controlling the temperature of balloon-borne equipment
[NASA-CASE-GSC-11620-1] c34 N74-23039

BALLOONS
Development and characteristics of hot air balloon deceleration and recovery system
[NASA-CASE-XLA-06824-2] c02 N71-11037
Inflation system for balloon type satellites
[NASA-CASE-XGS-03351] c31 N71-16081
System for controlling torque buildup in suspension of gondola connected to balloon by parachute shroud lines
[NASA-CASE-GSC-11077-1] c02 N73-13008

BALLS
Two axis flight controller with potentiometer control shafts directly coupled to rotatable ball members
[NASA-CASE-XFR-04104] c03 N70-42073

BANDPASS FILTERS
Helical coaxial resonator RF filter
[NASA-CASE-XGS-02816] c07 N69-24323
Phase locked demodulator with bandwidth switching amplifier circuit
[NASA-CASE-XNP-01107] c10 N71-28859
Signal to noise ratio determination circuit using bandpass limiter
[NASA-CASE-GSC-11239-1] c10 N73-25241
Selective bandpass resonators using bandstop resonator pairs for microwave frequency operation
[NASA-CASE-GSC-10990-1] c09 N73-26195
Dichroic plate --- as bandpass filters
[NASA-CASE-NPO-13506-1] c35 N76-15435
Notch filter
[NASA-CASE-MFS-23303-1] c32 N77-18307

BANDWIDTH
Improvements in receiver of narrow bandwidth television system
[NASA-CASE-XMS-06740-1] c07 N71-26579
Self-tuning electronic filter for maintaining constant bandwidth and center frequency gain
[NASA-CASE-ARC-10264-1] c09 N73-20231
Turnstile and flared cone UHF antenna
[NASA-CASE-LAR-10970-1] c33 N76-14372
Very narrow band width receiver
[NASA-CASE-GSC-12142-1] c32 N77-20299

BARIUM
Chemical system for releasing barium to create ion clouds in upper atmosphere and interplanetary space
[NASA-CASE-LAR-10670-1] c06 N73-30097

BARIUM COMPOUNDS
Improved cathode containing barium carbonate block and heated tungsten screen for electron bombardment ion thrustor
[NASA-CASE-XLE-07087] c06 N69-39889

BARIUM FLUORIDES
Production of barium fluoride-calcium fluoride composite lubricant for bearings or seals
[NASA-CASE-XLE-08511-2] c18 N71-16105

BARIUM ION CLOUDS
Rocket having barium release system to create ion clouds in the upper atmosphere
[NASA-CASE-LAR-10670-2] c15 N74-27360

BARIUM TITANATES
Memory device employing semiconductor and ferroelectric properties of single crystal barium titanate
[NASA-CASE-ERC-10307] c08 N72-21198

BARRIER LAYERS
High voltage, high current Schottky barrier solar cell
[NASA-CASE-NPO-13482-1] c44 N74-30448

BARRIERS
Short range laser obstacle detector --- for surface vehicles using laser diode array
[NASA-CASE-NPO-11856-1] c36 N74-15145

BASES (CHEMICAL)
Low concentration alkaline solution treatment of aluminum with metal phosphate surface coatings to improve chemical bonding and reduce coating weight
[NASA-CASE-XLA-01995] c18 N71-23047

BATTERY CHARGERS
Battery charging system with cell to cell voltage balance
[NASA-CASE-XGS-05432] c03 N71-19438
Alkaline-type coulometer cell for primary charge control in secondary battery recharge circuits
[NASA-CASE-XGS-05434] c03 N71-20491
Development and characteristics of battery charging circuits with coulometer for control of available current
[NASA-CASE-GSC-10487-1] c03 N71-24719
Method and apparatus for reconditioning nickel-cadmium batteries
[NASA-CASE-MFS-23270-1] c44 N77-12511

BAYARD-ALPERT IONIZATION GAGES
Describing hot filament type Bayard-Alpert ionization gage with ion collector buried or removed from grid structure
[NASA-CASE-XLA-07424] c14 N71-18482

BEADS
Rotary bead dropper and selector for testing micrometeorite transducers
[NASA-CASE-XGS-03304] c09 N71-22988

BEAM LEADS
Integrated circuit package with lead structure and method of preparing the same
[NASA-CASE-MFS-21374-1] c33 N74-12951

BEAM SPLITTERS
Optical range finder using reflective first surfaces mirror and transmitting beam splitter
[NASA-CASE-MSC-12105-1] c14 N72-21409
Method and apparatus for splitting a beam of energy
[NASA-CASE-GSC-12083-1] c36 N76-15451
Laser extensometer
[NASA-CASE-MFS-19259-1] c36 N77-10516

BEAM SWITCHING
Using electron beam switching for brushless motor commutation
[NASA-CASE-XGS-01451] c09 N71-10677
Antenna array at focal plane of reflector with coupling network for beam switching
[NASA-CASE-GSC-10220-1] c07 N71-27233
Dish antenna having switchable beamwidth --- with truncated concave ellipsoid subreflector
[NASA-CASE-GSC-11760-1] c33 N75-19516
Single frequency, two feed dish antenna having switchable beamwidth
[NASA-CASE-GSC-11968-1] c32 N76-15329
Switchable beamwidth monopulse method and system
[NASA-CASE-GSC-11920-1] c33 N76-27472

BEAM WAVEGUIDES
Laser machining device with dielectric functioning as beam waveguide for mechanical and medical applications
[NASA-CASE-HQN-10541-2] c15 N71-27135
Optical communication system with gas filled waveguide for laser beam transmission
[NASA-CASE-HQN-10541-4] c16 N71-27183
Laser beam projector for continuous, precise alignment between target, laser generator, and astronomical telescope during tracking
[NASA-CASE-NPO-11087] c23 N71-29125

BEAMS (RADIATION)
Method and means for recording and reconstructing holograms without use of reference beam
[NASA-CASE-ERC-10020] c16 N71-26154
Method and system for transmitting and distributing optical frequency radiation

[NASA-CASE-HQN-10541-3] c23 N72-23695
RF beam center location method and apparatus for power transmission system
[NASA-CASE-NPO-13821-1] c44 N76-26692
BEARING (DIRECTION)
Light radiation direction indicator with baffle of two parallel grids
[NASA-CASE-XNP-03930] c14 N69-24331
Solar radiation direction detector and device for compensating degradation of photocells
[NASA-CASE-XLA-00183] c14 N70-40239
Michelson interferometer with photodetector for optical direction sensing
[NASA-CASE-NPO-10320] c14 N71-17655
Omnidirectional liquid filled accelerometer design with liquid and housing temperature compensation
[NASA-CASE-HQN-10780] c14 N71-30265
Magnetic heading reference
[NASA-CASE-LAR-11387-2] c04 N77-19056
BEARINGS
Metal alloy bearing materials for space applications
[NASA-CASE-XLE-05033] c15 N71-23810
Low friction bearing and lock mechanism for two-axis gimbal carrying satellite payload
[NASA-CASE-GSC-10556-1] c31 N71-26537
Measuring device for bearing preload using spring washers
[NASA-CASE-MFS-20434] c11 N72-25288
Magnetic bearing --- for supplying magnetic fluxes
[NASA-CASE-GSC-11079-1] c37 N75-18574
Bearing material
[NASA-CASE-LEW-11930-2] c24 N76-26282
Magnetic bearing system
[NASA-CASE-GSC-11978-1] c37 N77-17464
A cantilever mounted resilient pad gas bearing
[NASA-CASE-LEW-12569-1] c37 N77-24496
Hydrostatic bearing support
[NASA-CASE-LEW-11158-1] c37 N77-28486
Deformable bearing seat
[NASA-CASE-LEW-12527-1] c37 N77-32500
Bearing seat usable in a gas turbine engine
[NASA-CASE-LEW-12477-1] c37 N77-32501
BEDS (PROCESS ENGINEERING)
Catalyst bed element removing tool
[NASA-CASE-XFR-00811] c15 N70-36901
BEER LAW
Multichannel photoionization chamber for measuring absorption, photoionization yield, and coefficients of gases
[NASA-CASE-ERC-10044-1] c14 N71-27090
BEES
Decontamination of petroleum products with honey
[NASA-CASE-XNP-03835] c06 N71-23499
BELLOWS
Compact bellows spirometer for high speed and high altitude space travel
[NASA-CASE-XAR-01547] c05 N69-21473
Electrical connection for printed circuits on common board, using bellows principle in rivet
[NASA-CASE-XNP-05082] c15 N70-41960
Flexible bellows joint shielding sleeve for propellant transfer pipelines
[NASA-CASE-XNP-01855] c15 N71-28937
Internally supported flexible duct joint --- device for conducting fluids in high pressure systems
[NASA-CASE-MFS-19193-1] c37 N75-19686
BELTS
Apparatus for forming drive belts
[NASA-CASE-NPO-13205-1] c31 N74-32917
BENDING
Method and apparatus for bowing of instrument panels to improve radio frequency shielded enclosure
[NASA-CASE-XMF-09422] c07 N71-19436
Development of systems for automatically and continually suppressing or attenuating bending motion in elastic bodies
[NASA-CASE-XAC-05632] c32 N71-23971
Elbow forming in jacketed pipes while maintaining separation between core shape and jacket pipes
[NASA-CASE-XNP-10475] c15 N71-24679
Device for bending metal ribbon or wire
[NASA-CASE-XLA-05966] c15 N72-12408
BENDING DIAGRAMS
Charged particle analyzer with periodically varying voltage applied across electrostatic deflection members
[NASA-CASE-XAC-05506-1] c24 N71-16095
BENDING FATIGUE
Apparatus for testing metallic and nonmetallic beams or rods by bending at high temperatures in vacuum or inert atmosphere
[NASA-CASE-XLE-01300] c15 N70-41993
Cryostat for flexure fatigue testing of composite materials
[NASA-CASE-XMF-02964] c14 N71-17659
BENDING MOMENTS
Launch pad missile release system with bending moment change rate reduction in thrust distribution structure at liftoff
[NASA-CASE-XMF-03198] c30 N70-40353
BENDING VIBRATION
Mercury filled pendulum damper for controlling bending vibration induced by wind effects
[NASA-CASE-LAR-10274-1] c14 N71-17626
BENZENE
Para-benzoquinone dioxime and concentrated mineral acid processed to yield intumescent or fire resistant, heat insulating materials
[NASA-CASE-ARC-10304-1] c18 N73-26572
BERYLLIUM ALLOYS
Development of fluoride coating to prevent oxidation of beryllium surfaces at elevated temperatures
[NASA-CASE-LEW-10327] c17 N71-33408
BERYLLIUM OXIDES
High temperature beryllium oxide capacitor
[NASA-CASE-LEW-11938-1] c33 N76-15373
BIMETALS
Nonmagnetic thermal motor for magnetometer movement
[NASA-CASE-XAR-03786] c09 N69-21313
Design and development of linear actuator based on bimetallic spring expansion
[NASA-CASE-NPO-10637] c15 N72-12409
Application of spiral, bimetallic strip to create circular motion on mechanical shaft by changing strip temperature
[NASA-CASE-NPO-11283] c09 N72-25260
Development of thermal compensating structure which maintains uniform length with changes in temperature
[NASA-CASE-MFS-20433] c15 N72-28496
Bimetallic fluid displacement apparatus --- for stirring and heating stored gases and liquids
[NASA-CASE-ARC-10441-1] c35 N74-15126
Thermocouples of tantalum and rhenium alloys for more stable vacuum-high temperature performance
[NASA-CASE-LEW-12050-1] c35 N77-32454
BINARY CODES
Time division relay synchronizer with master sync pulse for activating binary counter to produce signal identifying time slot for station
[NASA-CASE-GSC-10373-1] c07 N71-19773
Logic circuit for generating multibit binary code word in parallel
[NASA-CASE-XNP-04623] c10 N71-26103
Design and development of encoder/decoder system to generate binary code which is function of outputs of plurality of bistable elements
[NASA-CASE-NPO-10342] c10 N71-33407
Binary coded sequential acquisition ranging system for distance measurements
[NASA-CASE-NPO-11194] c08 N72-25209
Binary to binary coded decimal converter
[NASA-CASE-GSC-12044-1] c60 N76-13781
Binary concatenated coding system
[NASA-CASE-MSC-14082-1] c60 N76-23850
Multiple rate digital command detection system --- with range clean-up capability
[NASA-CASE-NPO-13753-1] c32 N77-20289
Pseudo noise code and data transmission method and apparatus
[NASA-CASE-GSC-12017-1] c32 N77-30308
BINARY DATA
Nondestructive interrogating and state changing circuit for binary magnetic storage elements
[NASA-CASE-XGS-00174] c08 N70-34743
Logic circuit to ripple add and subtract binary counters for spaceborne computers
[NASA-CASE-XGS-04766] c08 N71-18602
Describing circuit for obtaining sum of squares of numbers
[NASA-CASE-XGS-04765] c08 N71-18693

Digital synchronizer for extracting binary data in receiver of PSK/PCM communication system [NASA-CASE-NPO-10851] c07 N71-24613
Differential phase shift keyed communication system [NASA-CASE-MSC-14065-1] c32 N74-26654
Modulator for tone and binary signals --- phase of modulation of tone and binary signals on carrier waves in communication systems [NASA-CASE-GSC-11743-1] c32 N75-24981

BINARY DIGITS
Logarithmic converter for compressing 19-digit binary input number to 8-digit output [NASA-CASE-XLA-00471] c08 N70-34778
Circuit diagram and operation of full binary adder [NASA-CASE-XGS-00689] c08 N70-34787
Binary number sorter for arranging numbers in order of magnitude [NASA-CASE-NPO-10112] c08 N71-12502
Binary sequence detector with few memory elements and minimized logic circuit complexity [NASA-CASE-XNP-05415] c08 N71-12505
Cathode ray tube system for displaying ones and zeros in binary wave train [NASA-CASE-XGS-04987] c08 N71-20571
Characteristics of comparator circuits for comparison of binary numbers in information processing system [NASA-CASE-XNP-04819] c08 N71-23295
Digital converter for scaling binary number to binary coded decimal number of higher multiple [NASA-CASE-KSC-10595] c08 N73-12176
Family of m-ary linear feedback shift register with binary logic [NASA-CASE-NPO-11868] c10 N73-20254
Binary concatenated coding system [NASA-CASE-MSC-14082-1] c60 N76-23850

BINARY FLUIDS
Flow measuring apparatus [NASA-CASE-LEW-12078-1] c35 N75-30503

BINARY TO DECIMAL CONVERTERS
Binary to binary-coded decimal converter using single set of logic circuits notwithstanding number of shift register decades [NASA-CASE-XNP-00432] c08 N70-35423
Design and operation of high speed binary to decimal conversion system [NASA-CASE-XGS-01230] c08 N71-19544
Binary to decimal decoder logic circuit design with feedback control and display device [NASA-CASE-XKS-06167] c08 N71-24890
High speed direct binary to binary coded decimal converter for use in PCM telemetry systems [NASA-CASE-KSC-10326] c08 N72-21197
Binary to binary coded decimal converter [NASA-CASE-GSC-12044-1] c60 N76-13781

BINDERS (MATERIALS)
Bonded solid lubricant coatings of calcium fluoride and binder for high temperature stability [NASA-CASE-XMS-00259] c18 N70-36400
Brazing alloy binder [NASA-CASE-XMF-05868] c26 N75-27125

BINOCULARS
Binocular device for displaying numerical information in field of view [NASA-CASE-LAR-11782-1] c74 N77-20882

BIOACOUSTICS
Hearing aid malfunction detection system [NASA-CASE-MSC-14916-1] c33 N77-13335

BIOASSAY
Spectrophotofluorometer with 3-dimensional display to identify fluorescence spectra of carcinogenic and noncarcinogenic hydrocarbons [NASA-CASE-XGS-01231] c14 N70-41676
Bioassay of flavin coenzymes [NASA-CASE-GSC-10565-1] c06 N72-25149
Enzymatic luminescent bioassay method for determining bacterial levels in urine [NASA-CASE-GSC-11092-2] c04 N73-27052
Amino acid analysis [NASA-CASE-NPO-12130-1] c25 N75-14844
Servo-controlled intravital microscope system [NASA-CASE-NPO-13214-1] c35 N75-25123
Method of detecting and counting bacteria [NASA-CASE-GSC-11917-2] c51 N76-29891
Automated clinical system for chromosome analysis [NASA-CASE-NPO-13913-1] c52 N77-19750
Determination of antimicrobial susceptibilities of infected urines without isolation [NASA-CASE-GSC-12046-1] c52 N77-26797

BIOELECTRIC POTENTIAL
Electrochemically reversible silver-silver chloride electrode for detecting bioelectric potential differences generated by human muscles and organs [NASA-CASE-XMS-02872] c05 N69-21925
Manufacturing process for making perspiration resistant-stress resistant biopotential electrode [NASA-CASE-MSC-90153-2] c05 N72-25120
Process for control of cell division [NASA-CASE-LAR-10773-3] c51 N77-25769

BIOELECTRICITY
Development and characteristics of electrodes in which poisoning by organic molecules is prevented by ion selective electrolytic deposition of hydrophilic protein colloid [NASA-CASE-XMS-04213-1] c09 N71-26002

BIOENGINEERING
Bio-isolated dc operational amplifier --- for bioelectric measurements [NASA-CASE-ARC-10596-1] c33 N74-21851
Actuator device for artificial leg [NASA-CASE-MFS-23225-1] c52 N77-14735
Percutaneous connector device [NASA-CASE-KSC-10849-1] c52 N77-14738

BIOINSTRUMENTATION
Temperature compensated solid state differential amplifier with application in bioinstrumentation circuits [NASA-CASE-XAC-00435] c09 N70-35440
Electrode attached to helmets for detecting low level signals from skin of living creatures [NASA-CASE-ARC-10043-1] c05 N71-11193
Characteristics of pressed disc electrode for biological measurements [NASA-CASE-XMS-04212-1] c05 N71-12346
Development of apparatus and method for quantitatively measuring brain activity as automatic indication of sleep state and level of consciousness [NASA-CASE-MSC-13282-1] c05 N71-24729
Development and characteristics of electrodes in which poisoning by organic molecules is prevented by ion selective electrolytic deposition of hydrophilic protein colloid [NASA-CASE-XMS-04213-1] c09 N71-26002
Ultrasonic biomedical measuring and recording apparatus --- for recording motion of internal organs such as heart valves [NASA-CASE-ARC-10597-1] c52 N74-20726
Subminiature insertable force transducer --- including a strain gage to measure forces in muscles [NASA-CASE-NPO-13423-1] c33 N75-31329
A condition sensor system and method [NASA-CASE-MSC-14805-1] c35 N76-26448
A logic-controlled occlusive cuff system [NASA-CASE-MSC-14836-1] c52 N76-27839
Catheter tip force transducer for cardiovascular research [NASA-CASE-NPO-13643-1] c52 N76-29896
Biomedical ultrasonoscope [NASA-CASE-ARC-10994-1] c52 N76-33835
Thermistor holder for skin temperature measurements [NASA-CASE-ARC-10855-1] c52 N77-10780
EKG and ultrasonoscope display [NASA-CASE-ARC-10994-2] c52 N77-15619
Induction powered biological radiosonde --- for measuring intracranial pressure [NASA-CASE-ARC-11120-1] c52 N77-23743
Magnetic electrical connectors for biomedical percutaneous implants [NASA-CASE-KSC-11030-1] c52 N77-25772
Corneal seal device [NASA-CASE-LEW-12258-1] c52 N77-28716
Snap-in compressible biomedical electrode [NASA-CASE-MSC-14623-1] c52 N77-28717

BIOLUMINESCENCE
Detection instrument for light emitted from ATP biochemical reaction [NASA-CASE-XGS-05534] c23 N71-16355
Describing method for lyophilization of luciferase containing mixtures for use in life detection reactions

[NASA-CASE-XGS-05532] c06 N71-17705
Application of luciferase assay for ATP to antimicrobial drug susceptibility
[NASA-CASE-GSC-12039-1] c51 N77-22794
BIOMEDICAL DATA
Silicon radiation detecting probe design for in vivo biomedical use
[NASA-CASE-XMS-01177] c05 N71-19440
BIOMETRICS
Characteristics of pressed disc electrode for biological measurements
[NASA-CASE-XMS-04212-1] c05 N71-12346
Compressible electrolyte saturated sponge electrode for biomedical applications
[NASA-CASE-MSC-13648] c05 N72-27103
Ultrasonic biomedical measuring and recording apparatus --- for recording motion of internal organs such as heart valves
[NASA-CASE-ARC-10597-1] c52 N74-20726
Arterial pulse wave pressure transducer
[NASA-CASE-GSC-11531-1] c52 N74-27566
Biomedical ultrasonoscope
[NASA-CASE-ARC-10994-1] c52 N76-33835
BIOTELEMETRY
Biotelemetry apparatus with dual voltage generators for implanting in animals
[NASA-CASE-XAC-05706] c05 N71-12342
Miniature multichannel biotelemeter system
[NASA-CASE-NPO-13065-1] c52 N74-26625
Medical subject monitoring systems --- multichannel monitoring systems
[NASA-CASE-MSC-14180-1] c52 N76-14757
Accelerometer telemetry system
[NASA-CASE-ARC-10849-1] c17 N76-29347
Miniature ingestible telemeter devices to measure deep-body temperature
[NASA-CASE-ARC-10583-1] c52 N76-29894
BIREFRINGENCE
Automatic polarimeter capable of measuring transient birefringence changes in electro-optic materials
[NASA-CASE-XNP-08883] c23 N71-16101
Partial polarizer filter
[NASA-CASE-GSC-12225-1] c74 N77-30935
BIREFRINGENT FILTERS
Partial polarizer filter
[NASA-CASE-GSC-12225-1] c74 N77-30935
BISMUTH COMPOUNDS
Hall effect magnetometer
[NASA-CASE-LEW-11632-2] c35 N75-13213
BISTABLE CIRCUITS
Bistable multivibrator circuits operating at high speed and low power dissipation
[NASA-CASE-XGS-00823] c10 N71-15910
BIT SYNCHRONIZATION
Telemetry data unit to form multibit words for use between demodulator and computer
[NASA-CASE-XNP-09225] c09 N69-24333
Bit synchronization system using digital data transition tracking phased locked loop
[NASA-CASE-NPO-10844] c07 N72-20140
Bit synchronization of PCM communications signal, without separate synchronization channel by digital correlation
[NASA-CASE-NPO-11302-1] c07 N73-13149
Method and apparatus for a single channel digital communications system --- synchronization of received PCM signal by digital correlation with reference signal
[NASA-CASE-NPO-11302-2] c32 N74-10132
BITERNARY CODE
Encoders designed to generate comma free biorthogonal Reed-Muller type code comprising conversion of 64 6-bit words into 64 32-bit data for communication purposes
[NASA-CASE-NPO-10595] c10 N71-25917
BITS
Logic circuit for generating multibit binary code word in parallel
[NASA-CASE-XNP-04623] c10 N71-26103
MOD 2 sequential function generator for multibit sequence, with two-bit shift register for each pair of bits
[NASA-CASE-NPO-10636] c08 N72-25210
Bit error rate measurement above and below bit rate tracking threshold
[NASA-CASE-MSC-12743-1] c32 N77-19290
BLACK BODY RADIATION
Development of black-body source calibration furnace
[NASA-CASE-XLE-01399] c33 N71-15625
Black body cavity radiometer with thermal resistance wire bridge circuit
[NASA-CASE-XNP-08961] c14 N71-24809
Black body radiometer design with temperature sensing and cavity heat source cone winding
[NASA-CASE-XNP-09701] c14 N71-26475
Black body radiometer having isothermally surrounded cavity for ultraviolet, visible, and infrared radiation
[NASA-CASE-NPO-10810] c14 N71-27323
BLADE TIPS
Modification and improvement of turbine blades for maximum cooling efficiency
[NASA-CASE-XLE-00092] c15 N70-33264
BLADES (CUTTERS)
Piston in bore cutter for severing parachute control lines and sealing cable hole to prevent water leakage into load
[NASA-CASE-XMS-04072] c15 N70-42017
BLAST LOADS
Development of apparatus for detonating explosive devices in order to determine forces generated and detonation propagation rate
[NASA-CASE-LAR-10800-1] c33 N72-27959
BLOOD
Reduction of blood serum cholesterol
[NASA-CASE-NPO-12119-1] c52 N75-15270
Detection of microbial infection in blood and antibiotic determinations
[NASA-CASE-GSC-12045-1] c52 N77-18733
BLOOD FLOW
A logic-controlled occlusive cuff system
[NASA-CASE-MSC-14836-1] c52 N76-27839
BLOOD PRESSURE
Blood pressure measuring system for separately recording dc and ac pressure signals of Korotkoff sounds
[NASA-CASE-XMS-06061] c05 N71-23317
Apparatus and method for processing Korotkov sounds --- for blood pressure measurement
[NASA-CASE-MSC-13999-1] c52 N74-26626
Arterial pulse wave pressure transducer
[NASA-CASE-GSC-11531-1] c52 N74-27566
Circuit for detecting initial systole and dicrotic notch --- for monitoring arterial pressure
[NASA-CASE-LEW-11581-1] c54 N75-13531
BLUFF BODIES
Bluff-shaped annular configuration for supersonic decelerator for reentry vehicles
[NASA-CASE-XLE-00222] c02 N70-37939
BLUNT BODIES
Wind tunnel method for simulating flow fields around blunt vehicles entering planetary atmospheres without involving high temperatures
[NASA-CASE-LAR-11138] c12 N71-20436
BODIES OF REVOLUTION
Conforming polisher for aspheric surfaces of revolution with inflatable tube
[NASA-CASE-XGS-02884] c15 N71-22705
Test fixture for measuring moment of inertia of irregularly shaped body with multiple axes
[NASA-CASE-XGS-01023] c14 N71-22992
BODY FLUIDS
Programmable physiological infusion
[NASA-CASE-ARC-10447-1] c52 N74-22771
Method of detecting and counting bacteria
[NASA-CASE-GSC-11917-2] c51 N76-29891
BODY KINEMATICS
Space suit with improved waist and torso movement
[NASA-CASE-ARC-10275-1] c05 N72-22092
An improved controller arm for a remotely related slave arm
[NASA-CASE-ARC-11052-1] c54 N77-30751
BODY MEASUREMENT (BIOLOGY)
Biomedical ultrasonoscope
[NASA-CASE-ARC-10994-1] c52 N76-33835
BODY TEMPERATURE
Thermoregulating with cooling flow pipe network for humans
[NASA-CASE-XMS-10269] c05 N71-24147
Miniature ingestible telemeter devices to measure deep-body temperature
[NASA-CASE-ARC-10583-1] c52 N76-29894
BODY VOLUME (BIOLOGY)
Whole body measurement systems --- for weightlessness simulation

[NASA-CASE-MSC-13972-1] c52 N74-10975
BODY-WING CONFIGURATIONS
An improved free wing for an aircraft
[NASA-CASE-FRC-10092-1] c05 N77-31135
BOILERS
Vapor generating boiler system for turbine motor
[NASA-CASE-XLE-00785] c33 N71-16104
Shell-side liquid metal boiler employing tube and shell heat exchanger
[NASA-CASE-NPO-10831] c33 N72-20915
BOLOMETERS
High impedance alternating current sensing transformer device between two bolometers for measuring insertion loss of test component
[NASA-CASE-XNP-01193] c10 N71-16057
Thin film capacitive bolometer and capacitance temperature interchange sensor
[NASA-CASE-NPO-10607] c09 N71-27232
BOLTS
Patent data on gas actuated bolt disconnect assembly
[NASA-CASE-XLA-00326] c03 N70-34667
Bolt-latch mechanism for releasing despin weights from space vehicle
[NASA-CASE-XLA-00679] c15 N70-38601
Gage for quality control of sealing surfaces of threaded boss
[NASA-CASE-XMF-04966] c14 N71-17658
Split nut and bolt separation device
[NASA-CASE-XNP-06914] c15 N71-21489
Device for securing together structural members with axially stretched bolt and nut
[NASA-CASE-GSC-11149-1] c15 N73-30457
BONDING
Silver chloride use in technique for fusion bonding of graphite to silver, glass, ceramics, and certain other metals
[NASA-CASE-XGS-00963] c15 N69-39735
Bonded joint and method --- for reducing peak shear stress in adhesive bonds
[NASA-CASE-LAR-10900-1] c37 N74-23064
Bonding method in the manufacture of continuous regression rate sensor devices
[NASA-CASE-LAR-10337-1] c24 N75-30260
Strain arrestor plate for fused silica tile --- bonding of thermal insulation to metallic plates or structural parts
[NASA-CASE-MSC-14182-1] c27 N76-14264
Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide
[NASA-CASE-GSC-11577-3] c24 N76-19234
BONES
Ultrasonic bone densitometer
[NASA-CASE-MFS-20994-1] c35 N75-12271
Graphite reinforced bone cement
[NASA-CASE-NPO-13764-1] c24 N76-26281
Method and system for in vivo measurement of bone tissue using a two level energy source
[NASA-CASE-MSC-14276-1] c52 N77-14737
BOOMS (EQUIPMENT)
Unfolding boom assembly with knuckle joints for positioning equipment for spacecraft
[NASA-CASE-XGS-00938] c32 N70-41367
Collapsible antenna boom and coaxial transmission line having inflatable inner tube
[NASA-CASE-MFS-20068] c07 N71-27191
Extendable, self-deploying boom apparatus
[NASA-CASE-GSC-10566-1] c15 N72-18477
Design and characteristics of mechanically extended and telescoping boom on crane assembly
[NASA-CASE-NPO-11118] c03 N72-25021
BOOSTER RECOVERY
Techniques for recovery of multistage rocket vehicles by providing lifting surfaces on individual sections
[NASA-CASE-XMF-00389] c31 N70-34176
Recoverable, reusable single stage booster capable of injecting large payloads into circular earth orbit
[NASA-CASE-XMF-01973] c31 N70-41588
BOOSTER ROCKET ENGINES
Segmented back-up bar for butt welding large tubular structures such as rocket booster bodies or tanks
[NASA-CASE-XMF-00640] c15 N70-39924
Recoverable, reusable single stage booster capable of injecting large payloads into circular earth orbit
[NASA-CASE-XMF-01973] c31 N70-41588
BOOTS (FOOTWEAR)
A walking boot assembly
[NASA-CASE-ARC-11101-1] c54 N77-14742
BORING MACHINES
Automatic controlled drive mechanism for portable boring bar
[NASA-CASE-XLA-03661] c15 N71-33518
BORON
Radiation hardening of MOS devices by boron --- for stabilizing gate threshold potential of field effect device
[NASA-CASE-GSC-11425-1] c76 N74-20329
BORON CARBIDES
Catalyst for increased growth of boron carbide crystal whiskers
[NASA-CASE-XHQ-03903] c15 N69-21922
BORON FLUORIDES
Boron trifluoride coatings for thermoplastic materials
[NASA-CASE-ARC-11057-1] c27 N77-26308
BOUNDARY LAYER CONTROL
Double hinged flap for boundary layer control over trailing edges of wings
[NASA-CASE-XLA-01290] c02 N70-42016
BOUNDARY LAYER SEPARATION
Tertiary flow injection system for thrust vectoring of propulsive nozzle flow
[NASA-CASE-MFS-20831] c28 N71-29153
Controlled separation combustor --- airflow distribution in gas turbine engines
[NASA-CASE-LEW-11593-1] c20 N76-14190
BOUNDARY LAYERS
Flow meter for measuring stagnation pressure in boundary layer around high speed flight vehicle
[NASA-CASE-XFR-02007] c12 N71-24692
Development of thermocouple instrument for measuring temperature of wall heated by flowing fluid without disturbing boundary layer
[NASA-CASE-XLE-05230] c14 N72-27410
BOXES (CONTAINERS)
Sealed storage container for channel carriers with mounted miniature electronic components
[NASA-CASE-MFS-20075] c09 N71-26133
BRAKES (FOR ARRESTING MOTION)
Energy dissipating shock absorbing system for land payload recovery or vehicle braking
[NASA-CASE-XLA-00754] c15 N70-34850
Automatic braking device for rapidly transferring humans or materials from elevated location
[NASA-CASE-XKS-07814] c15 N71-27067
Sprag solenoid brake --- development and operations of electrically controlled brake
[NASA-CASE-MFS-21846-1] c37 N74-26976
Motion restraining device --- for dissipating at a controlled rate the force of a moving body
[NASA-CASE-NPO-13619-1] c37 N75-22748
Reel safety brake
[NASA-CASE-GSC-11960-1] c37 N77-14479
BRAKING
Direct current electromotive system for regenerative braking of electric motor
[NASA-CASE-XMF-01096] c10 N71-16030
Linear magnetic braking system with nonuniformly wrapped primary coil producing constant braking force on secondary coil
[NASA-CASE-XLE-05079] c15 N71-17652
Anemometer with braking mechanism to prevent rotation of wind driven elements
[NASA-CASE-XMF-05224] c14 N71-23726
BRAZING
Anti-wettable materials brazing processes using titanium and zirconium for surface pretreatment
[NASA-CASE-XMS-03537] c15 N69-21471
Application techniques for protecting materials during salt bath brazing
[NASA-CASE-XLE-00046] c15 N70-33311
Joining aluminum to stainless steel by bonding aluminum coatings onto titanium coated stainless steel and brazing aluminum to aluminum/titanium coated steel
[NASA-CASE-MFS-07369] c15 N71-20443
Brazing alloy adapted for brazing corrosion resistant steel to refractory metals, also for brazing refractory metals to other refractory metals
[NASA-CASE-XNP-03063] c17 N71-23365
Electric resistance spot welding and brazing for producing metal bonds with superior mechanical

and structural characteristics
[NASA-CASE-LAR-11072-1] c15 N73-20535
Brazing alloy binder
[NASA-CASE-XMF-05868] c26 N75-27125
Brazing alloy composition
[NASA-CASE-XMF-06053] c26 N75-27126
Brazing alloy
[NASA-CASE-XNP-03878] c26 N75-27127
Method of fluxless brazing and diffusion bonding of aluminum containing components
[NASA-CASE-MSC-14435-1] c37 N76-18455

BREATHING APPARATUS
Three-port transfer valve with one port open continuously suitable for manned space flight
[NASA-CASE-XAC-01158] c15 N71-23051
Self-contained breathing apparatus
[NASA-CASE-MSC-14733-1] c54 N76-24900
Portable breathing system
[NASA-CASE-MSC-16182-1] c54 N77-21847

BRICKS
Development of construction block in form of container folded from flat sheet and filled with solid material for architectural purposes
[NASA-CASE-MSC-12233-2] c32 N73-13921

BRIGHTNESS
Modulating and controlling intensity of light beam from high temperature source by servocontrolled rotating cylinders
[NASA-CASE-XMS-04300] c09 N71-19479

BRIGHTNESS DISCRIMINATION
Video signal processing system for sampling video brightness levels
[NASA-CASE-NPO-10140] c07 N71-24742
Automated visual sensitivity tester for determining visual field sensitivity and blind spot size
[NASA-CASE-ARC-10329-1] c05 N73-26072

BRITTLENESS
Rock sampling --- apparatus for controlling particle size
[NASA-CASE-XNP-10007-1] c46 N74-23068
Rock sampling --- method for controlling particle size distribution
[NASA-CASE-XNP-09755] c46 N74-23069

BROADBAND
Broadband chokes and absorbers to reduce spurious radiation patterns of antenna array caused by support structures
[NASA-CASE-XMS-05303] c07 N69-27462
Flexible monopole antenna with broad bandwidth and low voltage standing wave ratio
[NASA-CASE-MSC-12101] c09 N71-18720
Broadband frequency discriminator with resistive captive inductive networks
[NASA-CASE-NPO-10096] c07 N71-24583
Broadband microwave waveguide window to compensate dielectric material filling
[NASA-CASE-XNP-08880] c09 N71-24808
Comb type traveling wave maser amplifier for improved high gain broadband output
[NASA-CASE-NPO-10548] c16 N71-24831
Wideband voltage controlled oscillator with high phase stability
[NASA-CASE-XLA-03893] c10 N71-27271
Multimode antenna feed system for microwave and broadband communication
[NASA-CASE-GSC-11046-1] c07 N73-28013

BROADBAND AMPLIFIERS
Solid state broadband stable power amplifier
[NASA-CASE-XNP-10854] c10 N71-26331
Broadband distribution amplifier with complementary pair transistor output stages
[NASA-CASE-NPO-10003] c10 N71-26415

BROADCASTING
Vehicle locating system utilizing AM broadcasting station carriers
[NASA-CASE-NPO-13217-1] c32 N75-26194

BROMINE
Hydrogen-bromine secondary battery
[NASA-CASE-NPO-13237-1] c44 N76-18641

BRUSHES
Fabrication of sintered impurity semiconductor brushes for electrical energy transfer
[NASA-CASE-XMF-01016] c26 N71-17818

BUCKLING
Miniature vibration isolator utilizing elastic tubing material
[NASA-CASE-XLA-01019] c15 N70-40156
Test equipment to prevent buckling of small diameter specimens during compression tests
[NASA-CASE-LAR-10440-1] c14 N73-32323

BUFFER STORAGE
Data handling based on source significance, storage availability, and data received from source
[NASA-CASE-XNP-04162-1] c08 N70-34675
Data acquisition and processing system with buffer storage and timing device for magnetic tape recording of PCM data and timing information
[NASA-CASE-NPO-12107] c08 N71-27255
Digital to analog converter with parallel input/output memory device
[NASA-CASE-KSC-10397] c08 N72-25206

BUILDINGS
Apparatus and method of assembling building blocks by folding pre-cut flat sheets of material during on-site construction
[NASA-CASE-MSC-12233-1] c15 N72-25454

BULKHEADS
Liquid propellant tank design with semitoroidal bulkhead
[NASA-CASE-XMF-01899] c31 N70-41948

BUOYANCY
Inflatable radar reflector unit - lightweight, highly reflective to electromagnetic radiation, and adaptable for erection and deployment with minimum effort and time
[NASA-CASE-XMS-00893] c07 N70-40063

BURNING RATE
Pressurized gas injection for burning rate control of solid propellants
[NASA-CASE-XLE-03494] c27 N71-21819
Development of apparatus for testing burning rate and flammability of materials
[NASA-CASE-XMS-09690] c33 N72-25913

BURNOUT
Spherical solid propellant rocket engine having abrupt burnout
[NASA-CASE-XHQ-01897] c28 N70-35381

BUTT JOINTS
Channel-type shell construction for rocket engines and related configurations
[NASA-CASE-XLE-00144] c28 N70-34860
Segmented back-up bar for butt welding large tubular structures such as rocket booster bodies or tanks
[NASA-CASE-XMF-00640] c15 N70-39924
Apparatus for welding sheet material --- butt joints
[NASA-CASE-XMS-01330] c37 N75-27376

BUTTERFLY VALVES
Flexible inflatable seal for butterfly valves
[NASA-CASE-XLE-00101] c15 N70-33376

BYPASSES
Low power drain transistor feedback circuit
[NASA-CASE-XGS-04999] c09 N69-24317
Helical coaxial resonator RF filter
[NASA-CASE-XGS-02816] c07 N69-24323
Current regulating voltage divider design with load current shunting
[NASA-CASE-MFS-20935] c09 N71-34212
Electrical interconnection of unilluminated solar cells in solar battery array
[NASA-CASE-GSC-10344-1] c03 N72-27053

C

CABLE FORCE RECORDERS
Design and characteristics of device for showing amount of cable payed out from winch and load imposed
[NASA-CASE-MSC-12052-1] c15 N71-24599

CABLES
Cable guide and restraint device for reefing tubes in uniform manner
[NASA-CASE-LAR-10129-1] c15 N73-25512
Deployable flexible tunnel
[NASA-CASE-MFS-22636-1] c37 N76-22540

CABLES (ROPES)
High voltage cable for use in high intensity ionizing radiation fields
[NASA-CASE-XNP-00738] c09 N70-38201
Force separation rigid tethering device using cables
[NASA-CASE-XLA-02332] c32 N71-17609

Support for flexible conductor cable between drawers or racks holding electronic equipment and cabinet assembly housing drawers or racks
[NASA-CASE-XMF-07587] c15 N71-18701
Design and construction of satellite appendage tie-down cord
[NASA-CASE-XGS-02554] c31 N71-21064
Quick attach mechanism for moving or stationary wires, ropes, or cables
[NASA-CASE-XFR-05421] c15 N71-22994
Flexible cable that can be made rigid
[NASA-CASE-MSC-13512-1] c15 N72-22485
Guide member for stabilizing cable of open shaft elevator
[NASA-CASE-KSC-10513] c15 N72-25453
Reefing system
[NASA-CASE-LAR-10129-2] c37 N74-20063
Emergency descent device
[NASA-CASE-MFS-23074-1] c54 N77-21844

CADMIUM SULFIDES
High field CdS detector for infrared radiation
[NASA-CASE-LAR-11027-1] c35 N74-18088

CALCIUM
Ultrasonic bone densitometer
[NASA-CASE-MFS-20994-1] c35 N75-12271

CALCIUM FLUORIDES
Bonded solid lubricant coatings of calcium fluoride and binder for high temperature stability
[NASA-CASE-XMS-00259] c18 N70-36400
Production of barium fluoride-calcium fluoride composite lubricant for bearings or seals
[NASA-CASE-XLE-08511-2] c18 N71-16105

CALCIUM OXIDES
Process for the preparation of calcium superoxide
[NASA-CASE-ARC-11053-1] c25 N77-29252

CALCIUM PHOSPHATES
Process for preparing calcium phosphate salts for tooth repair
[NASA-CASE-ERC-10338] c04 N72-33072

CALCULATORS
Sun angle calculator
[NASA-CASE-MSC-12617-1] c35 N76-29552

CALIBRATING
Development and characteristics of self-calibrating displacement transducer for measuring magnitude and frequency of displacement of bodies
[NASA-CASE-XLA-00781] c09 N71-22999
Combination pressure transducer-calibrator assembly for measuring fluid
[NASA-CASE-XNP-01660] c14 N71-23036
Control system for pressure balance device used in calibrating pressure gages
[NASA-CASE-XMF-04134] c14 N71-23755
Phonocardiogram simulator producing electrical voltage waves to control amplitude and duration between simulated sounds
[NASA-CASE-XKS-10804] c05 N71-24606
Calibrator for measuring and modulating or demodulating laser outputs
[NASA-CASE-XLA-03410] c16 N71-25914
Plastic sphere for radar tracking and calibration
[NASA-CASE-XLA-11154] c07 N72-21117
Calibration of vacuum gauges for measuring total and partial pressures in ultrahigh vacuum region
[NASA-CASE-XGS-07752] c14 N73-30390
System for calibrating pressure transducer
[NASA-CASE-LAR-10910-1] c35 N74-13132
In situ transfer standard for ultrahigh vacuum gage calibration
[NASA-CASE-LAR-10862-1] c35 N74-15092
Ergometer calibrator --- for any ergometer utilizing rotating shaft
[NASA-CASE-MFS-21045-1] c35 N75-15932
Ultrasonic calibration device --- for producing changes in acoustic attenuation and phase velocity
[NASA-CASE-LAR-11435-1] c35 N76-15432
High temperature strain gage calibration fixture
[NASA-CASE-LAR-11500-1] c35 N76-24523
Microcomputerized electric field meter diagnostic and calibration system
[NASA-CASE-KSC-11035-1] c33 N77-20343

CALORIMETERS
Development and characteristics of calorimeter with integral heat sink for maintenance of constant temperature
[NASA-CASE-XMF-04208] c33 N71-29051
Heat flow calorimeter --- measures output of Ni-Cd batteries
[NASA-CASE-GSC-11434-1] c34 N74-27859

CAMERA SHUTTERS
Electrically operated rotary shutter for television camera aboard spacecraft
[NASA-CASE-XNP-00637] c14 N70-40273
Magnetically opened diaphragm design with camera shutter and expansion tube applications
[NASA-CASE-XLA-03660] c15 N71-21060
Development and characteristics of cyclically operable, optical shutter for use as focal plane shutter for transmitting single radiation pulses
[NASA-CASE-NPO-10758] c14 N73-14427
Rotary solenoid shutter drive assembly and rotary inertia damper and stop plate assembly --- for use with cameras mounted in satellites
[NASA-CASE-GSC-11560-1] c33 N74-20861

CAMERAS
Mechanism for measuring nanosecond time differences between luminous events using streak camera
[NASA-CASE-XLA-01987] c23 N71-23976
Camera adapter design for image magnification including lens and illuminator
[NASA-CASE-XNP-03844-1] c14 N71-26474
Longitudinalfilm gate and lock mechanism for securing film in motion picture cameras under vibration and high acceleration loads
[NASA-CASE-LAR-10686] c14 N71-28935
Design and characteristics of laser camera system with diffusion filter of small particles with average diameter larger than wavelength of laser light
[NASA-CASE-NPO-10417] c16 N71-33410
Optical scanner with linear housing and rotating camera
[NASA-CASE-NPO-11002] c14 N72-22441
Apparatus for on-film optical recording of camera lens aperture and focus setting
[NASA-CASE-MSC-12363-1] c14 N73-26431
Mechanical exposure interlock device for preventing film overexposure in oscilloscope camera
[NASA-CASE-LAR-10319-1] c14 N73-32322
Real time moving scene holographic camera system
[NASA-CASE-MFS-21087-1] c35 N74-17153
Automatic focus control for facsimile cameras
[NASA-CASE-LAR-11213-1] c35 N75-15014
Spectrometer integrated with a facsimile camera
[NASA-CASE-LAR-11207-1] c35 N75-19613
Real time, large volume, moving scene holographic camera system
[NASA-CASE-MFS-22537-1] c35 N75-27328
Holographic motion picture camera with Doppler shift compensation
[NASA-CASE-MFS-22517-1] c35 N76-18402
Camera arrangement --- for satellite scanning of earth or sky
[NASA-CASE-GSC-12032-2] c35 N76-19408

CANS
Controlled caging and uncaging mechanism
[NASA-CASE-GSC-11063-1] c37 N77-27400

CANARD CONFIGURATIONS
Thrust and attitude control apparatus using jet nozzle in movable canard surface or fin configuration
[NASA-CASE-XLE-03583] c31 N71-17629

CANCER
A cervix-to-rectum measuring device in a radiation applicator for use in the treatment of cervical cancer
[NASA-CASE-GSC-12081-2] c52 N77-26796

CANOPIES
Transparent fire resistant polymeric structures
[NASA-CASE-ARC-10813-1] c27 N76-16230

CANS
Design and characteristics of device for closing canisters under high vacuum conditions
[NASA-CASE-XLA-01446] c15 N71-21528
Extrusion can for extruding ceramics under heat and pressure
[NASA-CASE-NPO-10812] c15 N73-13464
An improved vehicular impact absorption system
[NASA-CASE-NPO-14014-1] c37 N77-31501

CANTILEVER BEAMS
Pneumatic cantilever beams and platform for space erectable structure

[NASA-CASE-XLA-01731] c32 N71-21045
CANTILEVER MEMBERS
Deployable cantilever support for deploying solar cell arrays aboard spacecraft and reducing transient loading
[NASA-CASE-NPO-10883] c31 N72-22874
Miniature biaxial strain transducer
[NASA-CASE-LAR-11648-1] c35 N77-14407
CAPACITANCE
Capacitance measuring device for determining flare accuracy on tapered tubes
[NASA-CASE-KKS-03495] c14 N69-39785
Device for measuring two orthogonal components of force with gallium flotation of measuring target for use in vacuum environments
[NASA-CASE-XAC-04885-1] c14 N71-23790
Thin film capacitive bolometer and capacitance temperature interchange sensor
[NASA-CASE-NPO-10607] c09 N71-27232
Capacitive tank gaging device for monitoring one constituent of two phase fluid by sensing dielectric constant
[NASA-CASE-MFS-21629] c14 N72-22442
Adjustable frequency response microphone
[NASA-CASE-LAR-11170-1] c32 N74-12843
Capacitance multiplier and filter synthesizing network
[NASA-CASE-NPO-11948-1] c33 N74-32712
Direct reading inductance meter
[NASA-CASE-NPO-13792-1] c35 N77-32455
CAPACITANCE SWITCHES
Electric discharge apparatus for electrohydraulic explosive forming
[NASA-CASE-XMF-00375] c15 N70-34249
Extra-long monostable multivibrator employing bistable semiconductor switch to allow charging of timing circuit
[NASA-CASE-XGS-00381] c09 N70-34819
Feedback integrating circuit with grounded capacitor for signal processing
[NASA-CASE-XAC-10607] c10 N71-23669
CAPACITORS
Temperature sensitive capacitor device for detecting very low intensity infrared radiation
[NASA-CASE-XNP-09750] c14 N69-39937
Energy source with tantalum capacitors in parallel and miniature silver oxide button cells for initiating pyrotechnic devices on spacecraft and rocket vehicles
[NASA-CASE-LAR-10367-1] c03 N70-26817
Electrical power system for space flight vehicles operating over extended periods
[NASA-CASE-XMF-00517] c03 N70-34157
Capacitor for measuring density of compressible fluid in liquid, gas, or liquid and gas phases
[NASA-CASE-XLE-00143] c14 N70-36618
Capacitor sandwich structure containing metal sheets of known thickness for counting penetration rates of meteoroids
[NASA-CASE-XLE-01246] c14 N71-10797
Capacitor fabrication by solidifying mixture of ferromagnetic metal particles, nonferromagnetic particles, and dielectric material
[NASA-CASE-LEW-10364-1] c09 N71-13522
Mechanism for measuring nanosecond time differences between luminous events using streak camera
[NASA-CASE-XLA-01987] c23 N71-23976
Circuit for monitoring power supply by ripple current indication
[NASA-CASE-KSC-10162] c09 N72-11225
Thermodielectric radiometer using polymer film as capacitor
[NASA-CASE-ARC-10138-1] c14 N72-24477
Material compositions and processes for developing dielectric thick films used in microcircuit capacitors
[NASA-CASE-LAR-10294-1] c26 N72-28762
Micrometeoroid analyzer using arrays of interconnected capacitors and ion detector
[NASA-CASE-ARC-10443-1] c14 N73-20477
Insulated electrocardiographic electrodes --- without paste electrolyte
[NASA-CASE-MSC-14339-1] c05 N75-24716
High temperature beryllium oxide capacitor
[NASA-CASE-LEW-11938-1] c33 N76-15373
Mechanical capacitor
[NASA-CASE-GSC-12030-1] c44 N76-30652
A regulated high efficiency, lightweight capacitor-diode multiplier DC to DC converter
[NASA-CASE-LEW-12791-1] c33 N77-24385
CAPILLARY FLOW
Capillary radiator for carrying heat transfer liquid in planetary spacecraft structures
[NASA-CASE-XLE-03307] c33 N71-14035
Lubrication for bearings by capillary action from oil reservoir of porous material
[NASA-CASE-XNP-03972] c15 N71-23048
Soldering device particularly suited to making high quality wiring joints for aerospace engineering utilizing capillary attraction to regulate flow of solder
[NASA-CASE-XLA-08911] c15 N71-27214
Capillary flow weld-bonding
[NASA-CASE-LAR-11726-1] c37 N76-27568
CAPILLARY TUBES
Tubular flow restrictor for gas flow control in pipeline
[NASA-CASE-NPO-10117] c15 N71-15608
Development of liquid separating system using capillary device connected to flexible bladder storage chamber
[NASA-CASE-XMS-13052] c14 N71-20427
Interrupter switching device utilizing electrodes and mercury filled capillary tubes in which current flow vaporizes mercury as circuit breaker
[NASA-CASE-XNP-02251] c12 N71-20896
Diffused waveguiding capillary tube with distributed feedback for a gas laser
[NASA-CASE-NPO-13544-1] c36 N76-18428
CARBAZOLES
Method of producing output voltage from photovoltaic cell using poly-N-vinyl carbazole complexed with iodine
[NASA-CASE-NPO-10373] c03 N71-18698
CARBOHYDRATES
Decontamination of petroleum products with honey
[NASA-CASE-XNP-03835] c06 N71-23499
CARBON ARCS
Water cooled contactors for holding rotating carbon arc anode
[NASA-CASE-XMS-03700] c15 N69-24266
CARBON COMPOUNDS
Vapor deposited laminated nitride-silicon coating for corrosion prevention of carbonaceous surfaces
[NASA-CASE-XLA-00284] c15 N71-16075
CARBON DIOXIDE
Carbon dioxide purge systems to prevent condensation in spaces between cryogenic fuel tanks and hypersonic vehicle skin
[NASA-CASE-XLA-01967] c31 N70-42015
Fast response miniature carbon dioxide detector with no moving parts for measuring concentration in any atmosphere
[NASA-CASE-MSC-13332-1] c14 N72-21408
CARBON DIOXIDE LASERS
Repetitively pulsed wavelength selective carbon dioxide laser
[NASA-CASE-ERC-10178] c16 N71-24832
Performance of ac power supply developed for CO2 laser system
[NASA-CASE-GSC-11222-1] c16 N73-32391
Stark-effect modulation of CO2 laser with NH2D
[NASA-CASE-NPO-11945-1] c36 N76-18427
CARBON DIOXIDE REMOVAL
Catalyst cartridge for carbon dioxide reduction unit
[NASA-CASE-LAR-10551-1] c25 N74-12813
Regenerable device for scrubbing breathable air of CO2 and moisture without special heat exchanger equipment
[NASA-CASE-MSC-14771-1] c54 N77-32722
CARBON MONOXIDE
Carbon monoxide monitor --- using real time operation
[NASA-CASE-MFS-22060-1] c35 N75-29380
CARBONATES
Chemical and physical properties of synthetic polyurethane polymer prepared by reacting hydroxy carbonate with organic diisocyanate
[NASA-CASE-MFS-10512] c06 N73-30099
CARBOXYL GROUP
Carboxyl terminated polyester prepolymers and foams produced from prepolymers and materials
[NASA-CASE-NPO-10596] c06 N71-25929

CARBOXYLIC ACIDS
Stable polyimide synthesis from mixtures of monomeric diamines and polycarboxylic acid esters
[NASA-CASE-LEW-11325-1] c06 N73-27980
Fluorinated esters of polycarboxylic acid and lubricating compositions for use at extreme temperature
[NASA-CASE-MFS-21040-1] c06 N73-30098
CARCINOGENS
Spectrophotofluorometer with 3-dimensional display to identify fluorescence spectra of carcinogenic and noncarcinogenic hydrocarbons
[NASA-CASE-XGS-01231] c14 N70-41676
CARDIAC VENTRICLES
Contour detector and data acquisition system for the left ventricular outline
[NASA-CASE-ARC-10985-1] c52 N77-17701
CARDIOGRAPHY
Digital cardiotachometer incorporating circuit for measuring heartbeat rate of subject over predetermined portion of one minute also converting rate to beats per minute
[NASA-CASE-XMS-02399] c05 N71-22896
Reference apparatus for medical ultrasonic transducer
[NASA-CASE-ARC-10753-1] c54 N75-27760
CARDIOLOGY
Development of instantaneous reading tachometer for measuring electrocardiogram signal rate
[NASA-CASE-MFS-20418] c14 N73-24473
Myocardium wall thickness transducer and measuring method
[NASA-CASE-NPO-13644-1] c52 N76-29895
CARDIOTACHOMETERS
Digital computing cardiotachometer
[NASA-CASE-MFS-20284-1] c52 N74-12778
CARDIOVASCULAR SYSTEM
Ear oximeter for monitoring blood oxygenation and pressure, pulse rate, and pressure pulse curve, using dc and ac amplifiers
[NASA-CASE-XAC-05422] c04 N71-23185
Catheter tip force transducer for cardiovascular research
[NASA-CASE-NPO-13643-1] c52 N76-29896
CARRIER FREQUENCIES
Demodulator for simultaneous demodulation of two modulating ac signal carriers close in frequency
[NASA-CASE-XMF-01160] c07 N71-11298
Automatic carrier acquisition system for phase locked loop receiver
[NASA-CASE-NPO-11628-1] c07 N73-30113
Demodulator for carrier transducers
[NASA-CASE-NUC-10107-1] c33 N74-17930
Decision feedback loop for tracking a polyphase modulated carrier
[NASA-CASE-NPO-13103-1] c32 N74-20811
Swept group delay measurement
[NASA-CASE-NPO-13909-1] c33 N77-17358
CARRIER WAVES
Variable frequency subcarrier oscillator with temperature compensation
[NASA-CASE-XNP-03916] c09 N71-28810
Modulator for tone and binary signals --- phase of modulation of tone and binary signals on carrier waves in communication systems
[NASA-CASE-GSC-11743-1] c32 N75-24981
CARRIERS
Sealed storage container for channel carriers with mounted miniature electronic components
[NASA-CASE-MFS-20075] c09 N71-26133
Apparatus for conducting flow electrophoresis in the substantial absence of gravity
[NASA-CASE-MFS-21394-1] c34 N74-27744
CARTESIAN COORDINATES
Design and development of random function tracer for obtaining coordinates of points on contour maps
[NASA-CASE-XLA-01401] c15 N71-21179
CARTRIDGES
Tape cartridge with high capacity storage of endless-loop magnetic tape
[NASA-CASE-XGS-00769] c14 N70-41647
Endless loop tape transport mechanism for driving and tensioning recording medium in magnetic tape recorder
[NASA-CASE-XGS-01223] c07 N71-10609
Catalyst cartridge for carbon dioxide reduction unit
[NASA-CASE-LAR-10551-1] c25 N74-12813
CASCADE CONTROL
Reversible ring counter using cascaded single silicon controlled rectifier stages
[NASA-CASE-XGS-01473] c09 N71-10673
Synchronous dc direct-drive system comprising multiple-loop hybrid control system controlling load directly connected to actuator
[NASA-CASE-GSC-10065-1] c10 N71-27136
Multiloop RC active filter network with low parameter sensitivity and low amplifier gain
[NASA-CASE-ARC-10192] c09 N72-21245
CASCADE FLOW
Cascade plug nozzle --- for jet noise reduction
[NASA-CASE-LAR-11674-1] c07 N76-18117
CASES (CONTAINERS)
Nonmagnetic hermetically sealed battery case made of epoxy resin and woven glass tape for use with electrochemical cells in spacecraft
[NASA-CASE-XGS-00886] c03 N71-11053
Protected isotope heat source --- for atmospheric reentry protection and heat transmission to spacecraft
[NASA-CASE-LEW-11227-1] c73 N75-30876
CASSEGRAIN ANTENNAS
Cassegrain antenna subreflector flange for suppressing ground noise and increasing antenna transmitting efficiency
[NASA-CASE-XNP-00683] c09 N70-35425
Design and operation of multi-feed cone Cassegrain antenna
[NASA-CASE-NPO-10539] c07 N71-11285
Synchronous detection system for detecting weak radio astronomical signals
[NASA-CASE-XNP-09832] c30 N71-23723
Dual frequency feed systems for Cassegrainian antennas
[NASA-CASE-NPO-13091-1] c09 N73-12214
Low loss dichroic plate
[NASA-CASE-NPO-13171-1] c32 N74-11000
CASTING
Hydraulic apparatus for casting and molding of liquid polymers
[NASA-CASE-XNP-07659] c06 N71-22975
CASTINGS
Method of making an apertured casting --- using duplicate mold
[NASA-CASE-LEW-11169-1] c37 N76-23570
CATALYSIS
Unit for generating thrust from catalytic decomposition of hydrogen peroxide, for high altitude aircraft or spacecraft reaction control
[NASA-CASE-XMS-00583] c28 N70-38504
Apparatus for photon excited catalysis
[NASA-CASE-NPO-13566-1] c25 N77-32255
CATALYSTS
Catalyst for increased growth of boron carbide crystal whiskers
[NASA-CASE-XHQ-03903] c15 N69-21922
Catalyst bed element removing tool
[NASA-CASE-XFR-00811] c15 N70-36901
Catalyst bed ignition system for hydrazine propellants
[NASA-CASE-XNP-00876] c28 N70-41311
Development of device for detecting hydrogen in ambient environments
[NASA-CASE-MFS-11537] c14 N71-20442
Catalyst cartridge for carbon dioxide reduction unit
[NASA-CASE-LAR-10551-1] c25 N74-12813
Process for removing sulfur dioxide from gas streams --- using iron as a catalyst
[NASA-CASE-MSC-16299-1] c45 N77-31668
CATALYTIC ACTIVITY
Catalytic trimerization of aromatic nitriles and triaryl-s-triazine ring cross-linked high temperature resistant polymers and copolymers made thereby
[NASA-CASE-LEW-12053-1] c27 N74-34579
A process of forming catalytic surfaces for oxidation reactions
[NASA-CASE-MSC-14831-1] c25 N76-23387
CATHETERIZATION
Transducer circuit design with single coaxial cable for input and output connections including incorporation into miniaturized catheter transducer
[NASA-CASE-ARC-10132-1] c09 N71-24597

Catheter tip force transducer for cardiovascular research
[NASA-CASE-NPO-13643-1] c52 N76-29896
CATHODE RAY TUBES
Cathode ray oscilloscope for analyzing electrical waveforms representing amplitude distribution of time function
[NASA-CASE-XNP-01383] c09 N71-10659
Cathode ray tube system for displaying ones and zeros in binary wave train
[NASA-CASE-XGS-04987] c08 N71-20571
Indexing mechanism for cathode array substitution in electron beam tube
[NASA-CASE-NPO-10625] c09 N71-26182
Color television system utilizing single gun current sensitive color cathode ray tube
[NASA-CASE-ERC-10098] c09 N71-28618
Digital video system for displaying image and alphanumeric data on cathode ray tube
[NASA-CASE-NPO-11342] c09 N72-25248
Switching circuit for control of cathode ray tube beam with fast rise time for output signal
[NASA-CASE-KSC-10647-1] c10 N72-31273
Situational display system of cathode ray tubes to assist pilot in aircraft control
[NASA-CASE-ERC-10350] c14 N73-20474
Very high intensity light source using a cathode ray tube --- electron beams
[NASA-CASE-XNP-01296] c33 N75-27250
CATHODES
Encapsulated heater forming hollow body for cathode used in ion thruster
[NASA-CASE-LEW-10814-1] c28 N70-35422
Electronic cathodes for use in electron bombardment ion thrustors
[NASA-CASE-XLE-04501] c09 N71-23190
Design and characteristics of heat activated electric cell with anode made from one or more alkali metals and cathode made from oxidizing material
[NASA-CASE-LEW-11358] c03 N71-26084
Characteristics of ion rocket engine with combination keeper electrode and electron baffle
[NASA-CASE-NPO-11880] c28 N73-24783
Storage battery comprising negative plates of a wedge shaped configuration --- for preventing shape change induced malfunctions
[NASA-CASE-NPO-11806-1] c44 N74-19693
CATIONS
Water insoluble, cationic permselective membrane
[NASA-CASE-NPO-11091] c18 N72-22567
CAVITATION FLOW
Semitoroidal diaphragm cavitating flow control valve
[NASA-CASE-XNP-09704] c12 N71-18615
CAVITIES
Black body radiometer having isothermally surrounded cavity for ultraviolet, visible, and infrared radiation
[NASA-CASE-NPO-10810] c14 N71-27323
Method for coating through-holes in ceramic substrates used in fabricating miniaturized electronic circuits
[NASA-CASE-XNP-05999] c15 N71-29032
Soil burrowing mole apparatus
[NASA-CASE-XNP-07169] c15 N73-32362
Method of constructing dished ion thruster grids to provide hole array spacing compensation
[NASA-CASE-LEW-11876-1] c20 N76-21276
Method of making hollow elastomeric bodies
[NASA-CASE-NPO-13535-1] c37 N76-31524
CAVITY RESONATORS
Helical coaxial resonator RF filter
[NASA-CASE-XGS-02816] c07 N69-24323
Semiconductor in resonant cavity for improving signal to noise ratio of communication receiver
[NASA-CASE-MSC-12259-1] c07 N70-12616
Thermally sensitive tuning probe for nullifying detuning effects in microwave cavity resonator of amplifier
[NASA-CASE-XNP-00449] c14 N70-35220
Holder for high frequency crystal resonators
[NASA-CASE-XNP-03637] c15 N71-21311
Superconductive resonant cavity for improved signal to noise ratio in communication signal
[NASA-CASE-MSC-12259-2] c07 N72-33146
Infrared tunable dye laser with nonlinear wavelength mixing crystal in optical cavity
[NASA-CASE-ARC-10463-1] c09 N73-32111
Tunable cavity resonator with ramp shaped supports
[NASA-CASE-HQN-10790-1] c36 N74-11313
CELESTIAL BODIES
Device for determining relative angular position of spacecraft and radiating celestial body
[NASA-CASE-GSC-11444-1] c14 N73-28490
Position determination systems --- using orbital antenna scan of celestial bodies
[NASA-CASE-MSC-12593-1] c17 N76-21250
CELESTIAL NAVIGATION
Development of star intensity measuring system which minimizes effects of outside interference
[NASA-CASE-XNP-06510] c14 N71-23797
CELL ANODES
Heat activated emf cells with aluminum anode
[NASA-CASE-LEW-11359] c03 N71-28579
Heat activated cell with aluminum anode
[NASA-CASE-LEW-11359-2] c03 N72-20034
Electrically rechargeable REDOX flow cell
[NASA-CASE-LEW-12220-1] c44 N77-14581
CELL DIVISION
Process for control of cell division
[NASA-CASE-LAR-10773-3] c51 N77-25769
CELLS
Separation cell with permeable membranes for fluid mixture component separation
[NASA-CASE-XMS-02952] c18 N71-20742
CELLS (BIOLOGY)
System for and method of freezing biological tissue
[NASA-CASE-GSC-12173-1] c52 N77-27693
CEMENTS
Graphite reinforced bone cement
[NASA-CASE-NPO-13764-1] c24 N76-26281
CENTRIFUGES
Centrifuge mounted motion simulator with elevator mechanism
[NASA-CASE-XAC-00399] c11 N70-34815
Liquid-gaseous centrifugal separator for weightlessness environment
[NASA-CASE-XLA-00415] c15 N71-16079
Centrifugal lyophobic separator
[NASA-CASE-LAR-10194-1] c34 N74-30608
Fluid control apparatus and method
[NASA-CASE-LAR-11110-1] c34 N75-26282
CERAMIC BONDING
Plasma spraying gun for forming diffusion bonded metal or ceramic coatings on substrates
[NASA-CASE-XLE-01604-2] c15 N71-15610
Method of forming ceramic to metal seals impervious to gaseous and liquid mercury at high temperature
[NASA-CASE-XNP-01263-2] c15 N71-26312
CERAMIC COATINGS
Evaporating crucible of tantalum-tungsten foil, nickel alumina bonding agent, and ceramic coating
[NASA-CASE-XLA-03105] c15 N69-27483
Unfired-ceramic, highly reflective composite insulation for large launch vehicles
[NASA-CASE-XMF-01030] c18 N70-41583
Unfired ceramic insulation for protection from radiant heating environments
[NASA-CASE-MFS-14253] c33 N71-24858
Cermet for nuclear fuel constructed by pressing metal coated ceramic particles in die at temperature to cause bonding of metal coatings, and tested for thermal stability
[NASA-CASE-LEW-10219-1] c18 N71-28729
Two-component ceramic coating for silica insulation
[NASA-CASE-MSC-14270-1] c27 N76-22377
Three-component ceramic coating for silica insulation
[NASA-CASE-MSC-14270-2] c27 N76-23426
CERAMIC NUCLEAR FUELS
Cermet for nuclear fuel constructed by pressing metal coated ceramic particles in die at temperature to cause bonding of metal coatings, and tested for thermal stability
[NASA-CASE-LEW-10219-1] c18 N71-28729
CERAMICS
Transpiration cooled turbine blade made from metallic or ceramic wires
[NASA-CASE-XLE-00020] c15 N70-33226
Characteristics of foamed-in-place ceramic refractory insulating material and method of fabrication
[NASA-CASE-XGS-02435] c18 N71-22998

Process for fiberizing ceramic materials with high fusion temperatures and tensile strength
[NASA-CASE-XNP-00597] c18 N71-23088
Method for coating through-holes in ceramic substrates used in fabricating miniaturized electronic circuits
[NASA-CASE-XMF-05999] c15 N71-29032
Extrusion can for extruding ceramics under heat and pressure
[NASA-CASE-NPO-10812] c15 N73-13464
Thermal shock resistant hafnia ceramic materials
[NASA-CASE-LAR-10894-1] c18 N73-14584
Insulation foil and method of making
[NASA-CASE-LEW-11484-2] c24 N75-14839
Thermal shock and erosion resistant tantalum carbide ceramic material
[NASA-CASE-LAR-11902-1] c27 N76-23436
Improved nozzle for use with abrasive and/or corrosive materials
[NASA-CASE-NPO-13823-1] c37 N77-17466
Thermal insulation attaching means --- adhesive bonding of felt vibration isolators under ceramic tiles
[NASA-CASE-MSC-12619-2] c16 N77-31237

CERMETS
Freeze casting of metal ceramic and refractory compound powders into plastic slips
[NASA-CASE-XLE-00106] c15 N71-16076
Cermet for nuclear fuel constructed by pressing metal coated ceramic particles in die at temperature to cause bonding of metal coatings, and tested for thermal stability
[NASA-CASE-LEW-10219-1] c18 N71-28729
Cermet composition and method of fabrication --- heat resistant alloys and powders
[NASA-CASE-NPO-13120-1] c27 N76-15311
High temperature oxidation resistant cermet compositions
[NASA-CASE-NPO-13666-1] c27 N77-13217

CESIUM
Heated tungsten filter for removing oxygen impurities from cesium
[NASA-CASE-XNP-04262-2] c17 N71-26773
Method of producing I-123 --- by bombardment of cesium causing spallation
[NASA-CASE-LEW-11390-2] c25 N76-27383

CESIUM DIODES
Oxygen-doped tantalum emitter for thermionic devices such as cesium vapor diodes
[NASA-CASE-NPO-11138] c03 N70-34646
Thermionic cesium diode converter with cavity emitters
[NASA-CASE-NPO-10412] c09 N71-28421

CESIUM ENGINES
Variable thrust ion engine using thermal decomposition of solid cesium compound to produce propulsive vapor
[NASA-CASE-XMF-00923] c28 N70-36802
Method for producing porous tungsten plates for ionizing cesium compounds for propulsion of ion engines
[NASA-CASE-XLE-00455] c28 N70-38197

CESIUM VAPOR
Electric power generation system directory from laser power
[NASA-CASE-NPO-13308-1] c36 N75-30524
Cesium thermionic converters having lanthanum hexaboride electrodes
[NASA-CASE-LEW-12038-2] c44 N77-32595

CHANNEL FLOW
Fabrication method for lightweight regeneratively cooled combustion chamber of channel construction
[NASA-CASE-XLE-00150] c28 N70-41818
Heated element sensor for fluid flow detection in thermal conductive conduit with adaptive means to determine flow rate and direction
[NASA-CASE-MSC-12084-1] c12 N71-17569

CHANNELS (DATA TRANSMISSION)
Error correction circuitry for binary signal channels
[NASA-CASE-XNP-03263] c09 N71-18843
Helical recorder for multiple channel recording
[NASA-CASE-GSC-10614-1] c09 N72-11224
Asynchronous, multiplexing, single line transmission and recovery data system --- for satellite use
[NASA-CASE-NPO-13321-1] c32 N75-26195

CHARACTER RECOGNITION
Automatic character skew and spacing checking network --- of digital tape drive systems
[NASA-CASE-GSC-11925-1] c33 N76-18353

CHARGE DISTRIBUTION
Operation of vidicon tube for scanning spatial charge density pattern
[NASA-CASE-XNP-06028] c09 N71-23189
Charge storage diode modulators and demodulators
[NASA-CASE-NPO-10189-1] c33 N77-21314

CHARGE EXCHANGE
Ion beam thruster shield
[NASA-CASE-LEW-12082-1] c20 N77-10148

CHARGE TRANSFER
Electronic counter circuit utilizing magnetic core and low power consumption
[NASA-CASE-XNP-08836] c09 N71-12515

CHARGE TRANSFER DEVICES
Charge transfer reaction laser with preionization means
[NASA-CASE-NPO-13945-1] c36 N77-19418

CHARGED PARTICLES
Method of forming thin window drifted silicon charged particle detector
[NASA-CASE-XLE-00808] c24 N71-10560
Charged particle analyzer with periodically varying voltage applied across electrostatic deflection members
[NASA-CASE-XAC-05506-1] c24 N71-16095
Electrostatic charged particle collector containing stacked electrodes for microwave tube
[NASA-CASE-LEW-11192-1] c09 N73-13208
Method and apparatus for neutralizing potentials induced on spacecraft surfaces
[NASA-CASE-GSC-11963-1] c33 N77-10429

CHARGING
Development of device for simulating charge and discharge cycle of battery in synchronous orbit
[NASA-CASE-GSC-11211-1] c03 N72-25020

CHARRING
Sensor device with switches for measuring surface recession of charring and noncharring ablators
[NASA-CASE-XLA-01781] c14 N69-39975
Ablation sensor for measuring char layer recession rate using electric wires
[NASA-CASE-XLA-01794] c33 N71-21586

CHECKOUT
Digital computer system for automatic prelaunch checkout of spacecraft
[NASA-CASE-XKS-08012-2] c31 N71-15566
Rapid activation and checkout device for batteries
[NASA-CASE-MFS-22749-1] c44 N76-14601

CHELATES
Ammonium perchlorate composite propellant with organic Cu/II/ chelate catalytic additive
[NASA-CASE-LAR-10173-1] c27 N71-14090

CHEMICAL ANALYSIS
Analytical test apparatus and method for determining oxygen content in alkali liquid metal
[NASA-CASE-XLE-01997] c06 N71-23527
Automated fluid chemical analyzer for microchemical analysis of small quantities of liquids by use of selected reagents and analyzer units
[NASA-CASE-XNP-09451] c06 N71-26754
Method for determining presence and type of OH in MgO
[NASA-CASE-NPO-10774] c06 N72-17095
Development and characteristics of injection system for use with gas chromatograph
[NASA-CASE-ARC-10344-1] c14 N72-21433
Micrometeoroid analyzer using arrays of interconnected capacitors and ion detector
[NASA-CASE-ARC-10443-1] c14 N73-20477
Chromato-fluorographic drug detector --- device for detecting and recording fluorescent properties of materials
[NASA-CASE-ARC-10633-1] c25 N74-26947
Amino acid analysis
[NASA-CASE-NPO-12130-1] c25 N75-14844
Gas chromatograph injection system
[NASA-CASE-ARC-10344-2] c35 N75-26334

CHEMICAL AUXILIARY POWER UNITS
Development and characteristics of ion-exchange membrane and electrode assembly for fuel cells or electrolysis cells
[NASA-CASE-XMS-02063] c03 N71-29044

CHEMICAL COMPOSITION
Rubber composition for expulsion bladders and diaphragms for use with hydrazine
[NASA-CASE-NPO-11433] c18 N71-31140
Phototropic composition of matter with sensitivity to ultraviolet light and usable for producing positive photographic images
[NASA-CASE-XGS-03736] c14 N72-22443
Frequency scanning particle size spectrometer
[NASA-CASE-NPO-13606-1] c35 N75-19627
CHEMICAL COMPOUNDS
Ultraviolet chromatographic detector for quantitative and qualitative analysis of compounds
[NASA-CASE-HQN-10756-1] c14 N72-25428
CHEMICAL ELEMENTS
Apparatus for remote handling of materials --- mixing or analyzing dangerous chemicals
[NASA-CASE-LAR-10634-1] c37 N74-18123
CHEMICAL ENGINEERING
Process for the preparation of calcium superoxide
[NASA-CASE-ARC-11053-1] c25 N77-29252
CHEMICAL MACHINING
Reusable masking boot for chemical machining operations
[NASA-CASE-XNP-02092] c15 N70-42033
CHEMICAL PROPERTIES
Method for producing alternating ether-siloxane copolymers with stable properties when exposed to elevated temperatures and UV radiation
[NASA-CASE-XMF-02584] c06 N71-20905
Chemical and physical properties of synthetic polyurethane polymer prepared by reacting hydroxy carbonate with organic diisocyanate
[NASA-CASE-MFS-10512] c06 N73-30099
Chemical and elastic properties of fluorinated polyurethanes
[NASA-CASE-NPO-10767-1] c06 N73-33076
Thiophenyl ether disilcxanes and trisiloxanes useful as lubricant fluids
[NASA-CASE-MFS-22411-1] c37 N74-21058
CHEMICAL REACTIONS
Process for interfacial polymerization of pyromellitic dianhydride and tetraamino benzene
[NASA-CASE-XLA-03104] c06 N71-11235
Synthesis of polymeric schiff bases by schiff-base exchange reactions
[NASA-CASE-XMF-08651] c06 N71-11236
Preparation of ordered poly/arylenesiloxane/ polymers
[NASA-CASE-XMF-10753] c06 N71-11237
Synthesis and chemical properties of imidazopyrrolone/imide copolymers
[NASA-CASE-XLA-08802] c06 N71-11238
Composition and process for improving definition of resin masks used in chemical etching
[NASA-CASE-XGS-04993] c14 N71-17574
Preparation of inorganic solid film lubricants with long wear life and stability in aerospace environments
[NASA-CASE-XMF-03988] c15 N71-21403
Synthesis of high purity dianilinosilanes
[NASA-CASE-XMF-06409] c06 N71-23230
Synthesis of aromatic diamines and dialdehyde polymers using Schiff base
[NASA-CASE-XMF-03074] c06 N71-24740
Chemical synthesis of hydroxy terminated perfluoro ethers as intermediates for highly fluorinated polyurethane resins
[NASA-CASE-NPO-10768] c06 N71-27254
Chemical synthesis of thermally stable organometallic polymers with divalent metal ion and tetraphenylphosphonitrilic units
[NASA-CASE-HQN-10364] c06 N71-27363
Apparatus and process for volumetrically dispensing reagent quantities of volatile chemicals for small batch reactions
[NASA-CASE-NPO-10070] c15 N71-27372
Infusible polymer production from reaction of polyfunctional epoxy resins with polyfunctional aziridine compounds
[NASA-CASE-NPO-10701] c06 N71-28620
Process for preparing high molecular weight polyaryloxysilanes from lower molecular weight forms
[NASA-CASE-XMF-08674] c06 N71-28807
Organometallic compounds of niobium and tantalum useful for film deposition
[NASA-CASE-XNP-04023] c06 N71-28808
Description of method for making homogeneous foamed materials in weightless environment using materials having different physical properties
[NASA-CASE-XMF-09902] c15 N72-11387
Method to produce high purity copper fluoride by heating copper hydroxyfluoride powder and subjecting to flowing fluorine gas
[NASA-CASE-LEW-10794-1] c06 N72-17093
Pumping and metering dual piston system and monitor for reaction chamber constituents
[NASA-CASE-GSC-10218-1] c15 N72-21465
Development of apparatus for producing metal powder particles of controlled size
[NASA-CASE-XLE-06461-2] c17 N72-28535
Chemical spot tests for identification of titanium and titanium alloys used in aerospace vehicles
[NASA-CASE-LAR-10539-1] c17 N73-12547
Self-cycling fluid heater for heating continuous fluid stream to ultrahigh temperatures to facilitate chemical reactions
[NASA-CASE-MSC-15567-1] c33 N73-16918
Chemical process for production of polyisobutylene compounds and application as solid rocket propellant binder
[NASA-CASE-NPO-10893] c27 N73-22710
Preparation of stable polyurethane polymer by reacting polymer with diisocyanate
[NASA-CASE-MFS-10506] c06 N73-30100
Preparation of polyurethane polymer by reacting hydroxy polyformal with organic diisocyanate
[NASA-CASE-MFS-10509] c06 N73-30103
Utilization of lithium p-lithiphenoxide to prepare star polymers
[NASA-CASE-NPO-10998-1] c06 N73-32029
Polyimide foam for the thermal insulation and fire protection
[NASA-CASE-ARC-10464-1] c27 N74-12812
Intumescent composition, foamed product prepared therewith and process for making same
[NASA-CASE-ARC-10304-2] c27 N74-27037
Vapor phase growth of groups 3-5 compounds by hydrogen chloride transport of the elements
[NASA-CASE-LAR-11144-1] c25 N75-26043
Utilization of oxygen difluoride for syntheses of fluoropolymers
[NASA-CASE-NPO-12061-1] c27 N76-16228
Method for detecting pollutants --- through chemical reactions and heat treatment
[NASA-CASE-LAR-11405-1] c45 N76-31714
CHEMICAL TESTS
Chemical spot tests for identification of titanium and titanium alloys used in aerospace vehicles
[NASA-CASE-LAR-10539-1] c17 N73-12547
Chemical spot test for identifying magnesium or magnesium alloys used in aerospace applications
[NASA-CASE-LAR-10953-1] c17 N73-27446
CHIMNEYS
Smokestack mounted airfoil
[NASA-CASE-LAR-11669-1] c34 N76-13419
CHLORINATION
Chlorine generator for purifying water in life support systems of manned spacecraft
[NASA-CASE-XLA-08913] c14 N71-28933
CHLOROPRENE RESINS
Flexible fire retardant polyisocyanate modified neoprene foam --- for thermal protective devices
[NASA-CASE-ARC-10180-1] c27 N74-12814
Flame-resistant liquid oxygen compatible neoprene rubber composition
[NASA-CASE-KSC-11020-1] c27 N77-23267
CHOKES
Current dependent variable inductance for input filter chokes of ac or dc power supplies
[NASA-CASE-ERC-10139] c09 N72-17154
CHOKES (RESTRICTIONS)
Variably positioned guide vanes for aerodynamic choking
[NASA-CASE-LAR-10642-1] c07 N74-31270
CHOLESTEROL
Reduction of blood serum cholesterol
[NASA-CASE-NPO-12119-1] c52 N75-15270
CHROMATOGRAPHY
Chromato-fluorographic drug detector --- device for detecting and recording fluorescent properties of materials
[NASA-CASE-ARC-10633-1] c25 N74-26947

CHROMIUM ALLOYS
Method of heat treating age-hardenable alloys
[NASA-CASE-XNP-01311] c26 N75-29236
Reduced chromium stainless steel alloys
[NASA-CASE-LEW-12543-1] c26 N77-21217
CHROMOSOMES
Automated clinical system for chromosome analysis
[NASA-CASE-NPO-13913-1] c52 N77-19750
CINEMATOGRAPHY
High speed photo-optical time recorder for indicating time at exposure of each frame of high speed movie camera film
[NASA-CASE-KSC-10294] c14 N72-18411
Holographic motion picture camera with Doppler shift compensation
[NASA-CASE-MFS-22517-1] c35 N76-18402
CIRCUIT BOARDS
Electrical feedthrough connection for printed circuit boards
[NASA-CASE-XMF-01483] c14 N69-27431
Electric connector for printed cable to printed cable or to printed board
[NASA-CASE-XMF-00369] c09 N70-36494
Electrical connection for printed circuits on common board, using bellows principle in rivet
[NASA-CASE-XNP-05082] c15 N70-41960
Electrical spot terminal assembly for printed circuit boards
[NASA-CASE-NPO-10034] c15 N71-17685
Development and characteristics of polyimide impregnated laminates with fiberglass cloth backing for application as printed circuit broads
[NASA-CASE-MFS-20408] c18 N73-12604
Techniques for packaging and mounting printed circuit boards
[NASA-CASE-MFS-21919-1] c10 N73-25243
Tool for use in lifting pin supported objects
[NASA-CASE-NPO-13157-1] c37 N74-32918
Shock absorbing mount for electrical components
[NASA-CASE-NPO-13253-1] c37 N75-18573
Connector --- for connecting circuits on different layers of multilayer printed circuit boards
[NASA-CASE-LAR-11709-1] c37 N76-27567
CIRCUIT BREAKERS
Interrupter switching device utilizing electrodes and mercury filled capillary tubes in which current flow vaporizes mercury as circuit breaker
[NASA-CASE-XNP-02251] c12 N71-20896
Single electrical circuit component combining diode, fuse, and blown indicator with elongated tube of heat resistant transparent material
[NASA-CASE-XKS-03381] c09 N71-22796
Electrical circuit selection device for simulating stage separation of flight vehicle
[NASA-CASE-XKS-04631] c10 N71-23663
Electromagnetic braking arrangement for controlling rotor rotation in electric motor
[NASA-CASE-XNP-06936] c15 N71-24695
Relay circuit breaker with magnetic latching to provide conductive and nonconductive paths for current devices
[NASA-CASE-MSC-11277] c09 N71-29008
Multiple circuit protector device
[NASA-CASE-XMS-02744] c33 N75-27249
CIRCUIT DIAGRAMS
Excitation and detection circuitry for flux responsive magnetic head
[NASA-CASE-XNP-04183] c09 N69-24329
Impedance transformation device for signal mixing
[NASA-CASE-XGS-01110] c07 N69-24334
Design of transistorized ring counter circuit with special steering and triggering circuits
[NASA-CASE-XGS-03095] c09 N69-27463
Solid state switching circuit design to increase current capacity of low rated relay contacts
[NASA-CASE-XNP-09228] c09 N69-27500
Extra-long monostable multivibrator employing bistable semiconductor switch to allow charging of timing circuit
[NASA-CASE-XGS-00381] c09 N70-34819
Frequency shift keyed demodulator - circuit diagrams
[NASA-CASE-XGS-02889] c07 N71-11282
Difference indicating circuit used in conjunction with device measuring gravitational fields
[NASA-CASE-XNP-08274] c10 N71-13537
High voltage transistor circuit
[NASA-CASE-XNP-06937] c09 N71-19516
Control of fusion welding through use of thermocouple wire
[NASA-CASE-MFS-06074] c15 N71-20393
Circuitry for developing autocorrelation function continuously within signal receiving period
[NASA-CASE-XNP-00746] c07 N71-21476
Single electrical circuit component combining diode, fuse, and blown indicator with elongated tube of heat resistant transparent material
[NASA-CASE-XKS-03381] c09 N71-22796
Design and development of buck-boost voltage regulator circuit with additive or subtractive alternating current impressed on variable direct current source voltage
[NASA-CASE-GSC-10735-1] c10 N71-26085
Design of active RC network capable of operating at high Q values with reduced sensitivity to gain amplification and number of passive components
[NASA-CASE-ARC-10042-2] c10 N72-11256
Precision surface cutter for screen circuit negatives and other microcircuits
[NASA-CASE-XLA-09843] c15 N72-27485
Self-regulating proportionally controlled heating apparatus and technique
[NASA-CASE-GSC-11752-1] c77 N75-20140
Symmetrical odd-modulus frequency divider
[NASA-CASE-NPO-13426-1] c33 N75-31330
Trielectrode capacitive pressure transducer
[NASA-CASE-ARC-10711-2] c33 N76-21390
Frequency discriminator and phase detector circuit
[NASA-CASE-NPO-11515-1] c33 N77-13315
CIRCUIT PROTECTION
Use of silicon controlled rectifier shorting circuit to protect thermoelectric generator source from thermal destruction
[NASA-CASE-XGS-04808] c03 N69-25146
Spark gap type protective circuit for fast sensing and removal of overvoltage conditions
[NASA-CASE-XAC-08981] c09 N69-39897
Development of in-line fuse device for protection of electric circuits from excessive currents and voltages
[NASA-CASE-MSC-12135-1] c09 N71-12526
Overcurrent protecting circuit for push-pull transistor amplifiers
[NASA-CASE-MSC-12033-1] c09 N71-13531
Solder coating process for printed copper circuit protection
[NASA-CASE-XMF-01599] c09 N71-20705
Power supply with overload protection for series stage transistor
[NASA-CASE-XMS-00913] c10 N71-23543
Selective plating of etched circuits without removing previous plating
[NASA-CASE-XGS-03120] c15 N71-24047
Circuit design for failure sensing and protecting low voltage electric generator and power transmission networks
[NASA-CASE-GSC-10114-1] c10 N71-27366
Sensing circuit for instantaneous reaction to power overloads
[NASA-CASE-GSC-10667-1] c10 N71-33129
Current protection equipment for saturable core transformers
[NASA-CASE-ERC-10075-2] c09 N72-22196
Development of process for forming insulating layer between two electrical conductor or semiconductor materials
[NASA-CASE-LEW-10489-1] c15 N72-25447
Phase protection system for ac power lines
[NASA-CASE-MSC-17832-1] c33 N74-14956
Overvoltage protection network
[NASA-CASE-ARC-10197-1] c33 N74-17929
Shock absorbing mount for electrical components
[NASA-CASE-NPO-13253-1] c37 N75-18573
Multiple circuit protector device
[NASA-CASE-XMS-02744] c33 N75-27249
Multi-cell battery protection system
[NASA-CASE-LEW-12039-1] c44 N76-23713
Shielded conductor cable system
[NASA-CASE-MSC-12745-1] c33 N77-13338

CIRCUITS
Distribution of currents to circuits using electrical adaptor
[NASA-CASE-XLA-01288] c09 N69-21470
Nondestructive interrogating and state changing circuit for binary magnetic storage elements
[NASA-CASE-XGS-00174] c08 N70-34743
Electronic circuit system for controlling electric motor speed
[NASA-CASE-XMF-01129] c09 N70-38712
Starting circuit design for initiating and maintaining arcs in vapor lamps
[NASA-CASE-XNP-01058] c09 N71-12540
Voltage drift compensation circuit for analog-to-digital converter
[NASA-CASE-XNP-04780] c08 N71-19687
High voltage divider system for attenuating high voltages to convenient levels suitable for introduction to measuring circuits
[NASA-CASE-XLE-02008] c09 N71-21583
Negation of magnetic fields produced by thin waferlike circuit elements in space vehicles
[NASA-CASE-XGS-03390] c03 N71-23187
Circuits for controlling reversible dc motor
[NASA-CASE-XNP-07477] c09 N71-26092
Device for rapid adjustment and maintenance of temperature in electronic components
[NASA-CASE-XNP-02792] c14 N71-28958
Pulse generating circuit for operation at very high duty cycles and repetition rates
[NASA-CASE-XNP-00745] c10 N71-28960
Development of electric circuit for production of different pulse width signals
[NASA-CASE-XLA-07788] c09 N71-29139
Sensing circuit for instantaneous reaction to power overloads
[NASA-CASE-GSC-10667-1] c10 N71-33129
Pulsed excitation voltage circuit for strain gage bridge transducers
[NASA-CASE-ERC-10036] c09 N72-22200
Development of thermal to electric power conversion system using solid state switches of electrical currents tc load for Seebeck effect ccmpensation
[NASA-CASE-NPO-11388] c03 N72-23048
Inductive-capacitive loops as load insensitive power converters
[NASA-CASE-ERC-10268] c09 N72-25252
Fail-safe multiple transformer circuit configuration
[NASA-CASE-NPO-11078] c09 N72-25262
Precision surface cutter for screen circuit negatives and other microcircuits
[NASA-CASE-XLA-09843] c15 N72-27485
Bridge-type gain control circuit
[NASA-CASE-GSC-10786-1] c10 N72-28241
Active tuned circuits for microelectronic construction
[NASA-CASE-GSC-11340-1] c10 N72-33230
Thermochromic compositions for detecting heat levels in electronic circuits and devices
[NASA-CASE-NPO-10764-1] c14 N73-14428
Electrodeless lamp circuit driven by induction
[NASA-CASE-MFS-21214-1] c09 N73-30181
Circuit for detecting initial systole and dicrotic notch --- for monitoring arterial pressure
[NASA-CASE-LEW-11581-1] c54 N75-13531
Peak holding circuit for extremely narrow pulses
[NASA-CASE-MSC-14129-1] c33 N75-18479
High voltage distributor
[NASA-CASE-GSC-11849-1] c33 N76-16332
CIRCULAR CONES
Optical apparatus for visual detection of roundness and regularity of cone surfaces
[NASA-CASE-XMF-00462] c14 N70-34298
CIRCULAR CYLINDERS
Modulating and controlling intensity of light beam from high temperature source by servocontrolled rotating cylinders
[NASA-CASE-XMS-04300] c09 N71-19479
CIRCULAR POLARIZATION
Left and right hand circular electromagnetic polarization excitation by phase shifter and hybrid networks
[NASA-CASE-GSC-10021-1] c09 N71-24595
Planar array circularly polarized antenna with wall slot excitation
[NASA-CASE-NPO-10301] c07 N72-11148
Circularly polarized antenna with linearly polarized pair of elements
[NASA-CASE-ERC-10214] c09 N72-31235
Dual frequency circularly polarized microwave integrated antenna
[NASA-CASE-MSC-16100-1] c32 N77-15233
CIRCULAR TUBES
Evacuated displacement compression molding
[NASA-CASE-LAR-10782-1] c31 N74-14133
CIRCULATORS (PHASE SHIFT CIRCUITS)
Development of electromagnetic wave transmission line circulator and application to parametric amplifier circuits
[NASA-CASE-XNP-02140] c09 N71-23097
CLAMPING CIRCUITS
Clamped amplifier circuit for horizon scanner enabling amplification and accurate measurement of specified parameters
[NASA-CASE-XGS-01784] c10 N71-20782
CLAMPS
Portable device for aligning surfaces of two adjacent wall or sheet sections for joining at point of junction
[NASA-CASE-XMF-01452] c15 N70-41371
Hydraulic clamping of sheet stock specimens
[NASA-CASE-XLA-05100] c15 N71-17696
Inertial component clamping assembly design for spacecraft guidance and control system mounting
[NASA-CASE-XMS-02184] c15 N71-20813
Design and development of module joint clamping device for application to solar array construction
[NASA-CASE-XNP-02341] c15 N71-21531
Quick attach mechanism for moving or stationary wires, ropes, or cables
[NASA-CASE-XFR-05421] c15 N71-22994
CLAYS
White paint production by heating impure aluminum silicate clay having low solar absorptance
[NASA-CASE-XNP-02139] c18 N71-24184
CLEAN ROOMS
Environmentally controlled suit for working in sterile chamber
[NASA-CASE-LAR-10076-1] c05 N73-20137
CLEANERS
Device for back purging thrust engines
[NASA-CASE-XMS-04826] c28 N71-28849
Noncontaminating swab with absorbent end covered with netted envelope to prevent egress of absorbent material
[NASA-CASE-MFS-18100] c15 N72-11390
CLEANING
Device for removing plastic dust cover from digital computer disk packs for inspection and cleaning
[NASA-CASE-LAR-10590-1] c15 N70-26819
CLEAR AIR TURBULENCE
Development of radiometric sensor to warn aircraft pilots of region of clear air turbulence along flight path
[NASA-CASE-ERC-10081] c14 N72-28437
Clear air turbulence detector
[NASA-CASE-MFS-21244-1] c36 N75-15028
CLIMBING FLIGHT
Aircraft indicator for pilot control of takeoff roll, climbout path and verticle flight path in poor visibility conditions
[NASA-CASE-XLA-00487] c14 N70-40157
CLINICAL MEDICINE
Process for preparing calcium phosphate salts for tooth repair
[NASA-CASE-ERC-10338] c04 N72-33072
Measurement of gas production of microorganisms --- using pressure sensors
[NASA-CASE-LAR-11326-1] c35 N75-33368
Production of I-123
[NASA-CASE-LEW-11390-3] c25 N76-29379
Automated clinical system for chromosome analysis
[NASA-CASE-NPO-13913-1] c52 N77-19750
A cervix-to-rectum measuring device in a radiation applicator for use in the treatment of cervical cancer
[NASA-CASE-GSC-12081-2] c52 N77-26796
CLOCKS
Time synchronization system for synchronizing clocks at remote locations with master clock using moon reflected coded signals
[NASA-CASE-NPO-10143] c10 N71-26326

Circuit for measuring wide range of pulse rates by utilizing high capacity counter
[NASA-CASE-XNP-06234] c10 N71-27137
Fault tolerant clock apparatus utilizing a controlled minority of clock elements
[NASA-CASE-MSC-12531-1] c35 N75-30504
Clock setter
[NASA-CASE-LAR-11458-1] c35 N76-16392
CLOSED CIRCUIT TELEVISION
Spacecraft docking and alignment system --- using television camera system
[NASA-CASE-MSC-12559-1] c18 N76-14186
CLOSED CYCLES
Closed loop radio communication ranging system to determine distance between moving airborne vehicle and fixed ground station
[NASA-CASE-XNP-01501] c21 N70-41930
Digital phase-locked loop
[NASA-CASE-GSC-11623-1] c33 N75-25040
Lead-oxygen dc power supply system having a closed loop oxygen and water system
[NASA-CASE-MFS-23059-1] c44 N76-27664
CLOSED ECOLOGICAL SYSTEMS
Potable water reclamation from human wastes in zero-G environment
[NASA-CASE-XLA-03213] c05 N71-11207
Spacecraft with artificial gravity and earthlike atmosphere
[NASA-CASE-LEW-11101-1] c31 N73-32750
Regenerable device for scrubbing breathable air of CO2 and moisture without special heat exchanger equipment
[NASA-CASE-MSC-14771-1] c54 N77-32722
CLOSURES
Design and characteristics of device for closing canisters under high vacuum conditions
[NASA-CASE-XLA-01446] c15 N71-21528
Spacesuit torso closure
[NASA-CASE-ARC-11100-1] c54 N77-25784
CLOUD CHAMBERS
Heat transfer device
[NASA-CASE-MFS-22938-1] c34 N76-18374
CLOUDS (METEOROLOGY)
Development and characteristics of apparatus for measuring intensity of electric field in atmosphere
[NASA-CASE-KSC-10730-1] c14 N73-32318
Electric field measuring and display system --- for cloud formations
[NASA-CASE-KSC-10731-1] c33 N74-27862
CMOS
A complementary DMOS-VMOS integrated circuit structure
[NASA-CASE-GSC-12190-1] c33 N77-29403
COATING
Solder coating process for printed copper circuit protection
[NASA-CASE-XNP-01599] c09 N71-20705
High thermal emittance black surface coatings and process for applying to metal and metal alloy surfaces used in radiative cooling of spacecraft
[NASA-CASE-XLA-06199] c15 N71-24875
Method for fabricating solar cells having integral collector grids
[NASA-CASE-LEW-12819-1] c44 N77-24593
COATINGS
Bonded solid lubricant coatings of calcium fluoride and binder for high temperature stability
[NASA-CASE-XMS-00259] c18 N70-36400
Selective coating for solar panels --- energy policy
[NASA-CASE-LEW-12159-1] c44 N76-15603
COAXIAL CABLES
Design and development of device for cooling inner conductor of coaxial cable
[NASA-CASE-XNP-09775] c09 N71-20445
Design and development of electric connectors for rigid and semirigid coaxial cables
[NASA-CASE-XNP-04732] c09 N71-20851
Transducer circuit design with single coaxial cable for input and output connections including incorporation into miniaturized catheter transducer
[NASA-CASE-ARC-10132-1] c09 N71-24597
Collapsible antenna boom and coaxial transmission line having inflatable inner tube
[NASA-CASE-MFS-20068] c07 N71-27191
Vibration isolation system, using coaxial helical compression springs
[NASA-CASE-NPO-11012] c15 N72-11391
Development and characteristics of hermetically sealed coaxial package for containing microwave semiconductor components
[NASA-CASE-GSC-10791-1] c15 N73-14469
System for stabilizing cable phase delay utilizing a coaxial cable under pressure
[NASA-CASE-NPO-13138-1] c33 N74-17927
Refrigerated coaxial coupling --- for microwave equipment
[NASA-CASE-NPO-13504-1] c33 N75-30430
COAXIAL PLASMA ACCELERATORS
Self-energized plasma compressor
[NASA-CASE-MFS-22145-2] c75 N76-17951
COBALT ALLOYS
High strength, corrosion resistant cobalt-based alloys for aerospace structures
[NASA-CASE-XLE-00726] c17 N71-15644
High temperature cobalt-base alloy resistant to corrosion by liquid metals and to sublimation in vacuum environment
[NASA-CASE-XLE-02991] c17 N71-16025
High temperature ferromagnetic cobalt-base alloy for electrical power generating equipment
[NASA-CASE-XLE-03629] c17 N71-23248
Cobalt-tungsten alloys with superior strength at elevated temperatures
[NASA-CASE-LEW-10436-1] c17 N73-32415
COCKPIT SIMULATORS
Controlled visibility device for simulating poor visibility conditions in training pilots in instrument landing and flight procedures
[NASA-CASE-XFR-04147] c11 N71-10748
CODERS
Design and development of encoder/decoder system to generate binary code which is function of outputs of plurality of bistable elements
[NASA-CASE-NPO-10342] c10 N71-33407
Biorthogonal encoder with modular design
[NASA-CASE-NPO-10629] c08 N72-18184
Method and apparatus for decoding compatible convolutional codes
[NASA-CASE-MSC-14070-1] c32 N74-32598
Digital plus analog output encoder
[NASA-CASE-GSC-12115-1] c62 N76-31946
Twin-capacitive shaft angle encoder with analog output signal
[NASA-CASE-ARC-10897-1] c33 N77-31404
CODING
Description of error correcting methods for use with digital data computers and apparatus for encoding and decoding digital data
[NASA-CASE-XNP-02748] c08 N71-22749
Apparatus and digital technique for coding rate data
[NASA-CASE-LAR-10128-1] c08 N73-20217
Binary concatenated coding system
[NASA-CASE-MSC-14082-1] c60 N76-23850
Differential pulse code modulation
[NASA-CASE-MSC-12506-1] c32 N77-12239
COEFFICIENT OF FRICTION
Static coefficient test method and apparatus
[NASA-CASE-GSC-11893-1] c35 N76-31489
COENZYMES
Bioassay of flavin coenzymes
[NASA-CASE-GSC-10565-1] c06 N72-25149
COHERENT ELECTROMAGNETIC RADIATION
Design of folded traveling wave maser structure
[NASA-CASE-XNP-05219] c16 N71-15550
Development of focused image holography with extended sources
[NASA-CASE-ERC-10019] c16 N71-15551
COHERENT LIGHT
Hybrid holographic system using reference, transmitted, and reflected beams simultaneously
[NASA-CASE-MFS-20074] c16 N71-15565
Development of apparatus for amplitude modulation of diode laser by periodic discharge of direct current power supply
[NASA-CASE-XMS-04269] c16 N71-22895
Coherent light beam device and method for measuring gas density in vacuum chambers
[NASA-CASE-XER-11203] c14 N71-28994
COHERENT RADIATION
Design and development of multichannel laser remote control system using modulated helium-neon laser as transmitter and light

collector as receiving antenna
[NASA-CASE-LAR-10311-1] c16 N73-16536
Monitoring atmospheric pollutants with a heterodyne radiometer transmitter-receiver
[NASA-CASE-NPO-11919-1] c35 N74-11284
Apparatus for scanning the surface of a cylindrical body
[NASA-CASE-NPO-11861-1] c36 N74-20009
Optically detonated explosive device
[NASA-CASE-NPO-11743-1] c28 N74-27425
Method and apparatus for generating coherent radiation in the ultra-violet region and above by use of distributed feedback
[NASA-CASE-NPO-13346-1] c36 N76-29575
COINCIDENCE CIRCUITS
Frequency measurement by coincidence detection with standard frequency
[NASA-CASE-MSC-14649-1] c33 N76-16331
COLD CATHODES
Cold cathode discharge tube with pressurized gas cell for meteoroid detection in space
[NASA-CASE-LAR-10483-1] c14 N73-32327
COLD GAS
Annular arc accelerator shock tube
[NASA-CASE-NPO-13528-1] c09 N77-10071
COLD WORKING
Cold metal hydroforming techniques using epoxy molds for counteracting creep or stretch
[NASA-CASE-XLE-05641-1] c15 N71-26346
COLLAPSE
Collapsible piston for hypervelocity gun
[NASA-CASE-MSC-13789-1] c11 N73-32152
COLLECTION
Automatic liquid inventory collecting and dispensing unit
[NASA-CASE-LAR-11071-1] c35 N75-19611
COLLIMATION
Long range laser traversing system
[NASA-CASE-GSC-11262-1] c36 N74-21091
Optical alignment device
[NASA-CASE-ARC-10932-1] c74 N76-22993
Spatial filter for Q-switched lasers
[NASA-CASE-LEW-12164-1] c36 N77-32478
COLLIMATORS
X ray collimating structure for focusing radiation directly onto detector
[NASA-CASE-XHQ-04106] c14 N70-40240
Collimator for analyzing spatial location of near and distant sources of radiation
[NASA-CASE-MFS-20546-2] c14 N73-30389
Multiplate focusing collimator --- for scanning small near radiation sources
[NASA-CASE-MFS-20932-1] c35 N75-19616
COLLISION AVOIDANCE
Cooperative Doppler radar system for avoiding midair collisions
[NASA-CASE-LAR-10403] c21 N71-11766
Satellite aided aircraft collision avoidance system effective for large number of aircraft
[NASA-CASE-ERC-10090] c21 N71-24948
Vertically stacked collinear array of independently fed omnidirectional antennas for use in collision warning systems on commercial aircraft
[NASA-CASE-LAR-10545-1] c09 N72-21244
Economical satellite aided vehicle avoidance system for preventing midair collisions
[NASA-CASE-ERC-10419] c21 N72-21631
Development and operating principles of collision warning system for aircraft accident prevention
[NASA-CASE-HQN-10703] c21 N73-13643
Development and characteristics of electronic signalling system and data processing equipment for warning systems to avoid midair collisions between aircraft
[NASA-CASE-LAR-10717-1] c21 N73-30641
Satellite aided vehicle avoidance system
[NASA-CASE-ERC-10419-1] c03 N75-30132
COLLOIDAL GENERATORS
Colloidal particle generator for electrostatic engine for propelling space vehicles
[NASA-CASE-XLE-00817] c28 N70-33265
COLLOIDAL PROPELLANTS
Colloidal particle generator for electrostatic engine for propelling space vehicles
[NASA-CASE-XLE-00817] c28 N70-33265
Low density and low viscosity magnetic propellant for use under zero gravity conditions
[NASA-CASE-XLE-01512] c12 N70-40124
Electrostatic microthrust propulsion system with annular slit colloid thrustor
[NASA-CASE-GSC-10709-1] c28 N71-25213
COLOR
Chemical spot test for identifying magnesium or magnesium alloys used in aerospace applications
[NASA-CASE-LAR-10953-1] c17 N73-27446
COLOR PHOTOGRAPHY
Color photointerpretation of interference colors reflected from thin film oil-coated components in moving gases for gas flow visualization
[NASA-CASE-XNP-01779] c12 N71-20815
COLOR TELEVISION
Color television system utilizing single gun current sensitive color cathode ray tube
[NASA-CASE-ERC-10098] c09 N71-28618
Color television system for allowing monochrome television camera to produce color pictures
[NASA-CASE-MSC-12146-1] c07 N72-17109
Video tape recorder with scan conversion playback for color television signals
[NASA-CASE-NPO-10166-1] c07 N73-22076
Full color hybrid display for aircraft simulators
[NASA-CASE-ARC-10903-1] c09 N76-10148
Scan converting video tape recorder
[NASA-CASE-NPO-10166-2] c35 N76-16391
System for producing chroma signals
[NASA-CASE-MSC-14683-1] c74 N77-18893
COLOR VISION
Color perception tester for testing color code perceptiveness of individuals
[NASA-CASE-KSC-10278] c05 N72-16015
COLUMNS (PROCESS ENGINEERING)
Micropacked column for rapid chromatographic analysis using low gas flow rates
[NASA-CASE-XNP-04816] c06 N69-39936
COLUMNS (SUPPORTS)
Lightweight structural columns --- for truss structures
[NASA-CASE-LAR-12095-1] c39 N77-27432
COMBINATORIAL ANALYSIS
Apparatus for computing square roots
[NASA-CASE-XGS-04768] c08 N71-19437
COMBUSTION
Device for detection of combustion light preceding gaseous explosions
[NASA-CASE-LAR-10739-1] c14 N73-16484
COMBUSTION CHAMBERS
Rocket chamber leak test fixture using tubular plug
[NASA-CASE-XFR-09479] c14 N69-27503
Propellant injectors for rocket combustion chambers
[NASA-CASE-XLE-00103] c28 N70-33241
Metal ribbon wrapped outer wall for regeneratively cooled combustion chamber
[NASA-CASE-XLE-00164] c15 N70-36411
Apparatus for cooling and injecting hypergolic propellants into combustion chamber of small rocket engine
[NASA-CASE-XLE-00303] c15 N70-36535
Ignition system for monopropellant combustion devices
[NASA-CASE-XNP-00249] c28 N70-38249
Fabrication method for lightweight regeneratively cooled combustion chamber of channel construction
[NASA-CASE-XLE-00150] c28 N70-41818
Rocket combustion chamber stability by controlling transverse instability during propellant combustion
[NASA-CASE-XLE-04603] c33 N71-21507
Regenerative cooling system for rocket combustion chamber using coolant tubes in convergent-divergent nozzle
[NASA-CASE-XLE-04857] c28 N71-23968
Rocket engine injector orifice to accommodate changes in density, velocity, and pressure, thereby maintaining constant mass flow rate of propellant into rocket combustion chamber
[NASA-CASE-XLE-03157] c28 N71-24736
Coaxial injector for mixing liquid propellants within combustion chambers
[NASA-CASE-NPO-11095] c15 N72-25455
Swirl can, full-annulus combustion chambers for high performance gas turbine engines
[NASA-CASE-LEW-11326-1] c23 N73-30665

Method of electroforming a rocket chamber
[NASA-CASE-LEW-11118-1] c20 N74-32919
Heat exchanger --- rocket combustion chambers and cooling systems
[NASA-CASE-LEW-12252-1] c34 N75-19579
A heat exchanger and method of making
[NASA-CASE-LEW-12441-1] c34 N75-19580
Controlled separation combustor --- airflow distribution in gas turbine engines
[NASA-CASE-LEW-11593-1] c20 N76-14190
Fuel combustor
[NASA-CASE-LEW-12137-1] c20 N76-20215
Direct heating surface combustor
[NASA-CASE-LEW-11877-1] c44 N76-28646
Reduction of nitric oxide emissions from a combustor
[NASA-CASE-ARC-10814-2] c25 N77-31260

COMBUSTION CONTROL
Pressurized gas injection for burning rate control of solid propellants
[NASA-CASE-XLE-03494] c27 N71-21819

COMBUSTION EFFICIENCY
Fuel injection system for maximum combustion efficiency of rocket engines
[NASA-CASE-XLE-00111] c28 N70-38199

COMBUSTION PHYSICS
Characteristics of solid propellant rocket engine with controlled rate of thrust buildup operating in vacuum environment
[NASA-CASE-NPO-11559] c28 N73-24784

COMBUSTION PRODUCTS
Contamination free separation nut eliminating combustion products from ambient surroundings generated by squib firing
[NASA-CASE-XGS-01971] c15 N71-15922
Device for generating and controlling combustion products for testing of fire detection system
[NASA-CASE-GSC-11095-1] c14 N72-10375
System for minimizing internal combustion engine pollution emission
[NASA-CASE-NPO-13402-1] c37 N76-18457

COMBUSTION STABILITY
Rocket combustion chamber stability by controlling transverse instability during propellant combustion
[NASA-CASE-XLE-04603] c33 N71-21507

COMMAND AND CONTROL
Multiple rate digital command detection system with range clean-up capability
[NASA-CASE-NPO-13753-1] c32 N77-20289

COMMAND MODULES
Energy absorbing crew couch strut for Apollo command module
[NASA-CASE-MSC-12279] c15 N72-17450

COMMERCIAL AIRCRAFT
Aircraft design concept
[NASA-CASE-LAR-11852-1] c05 N77-15027

COMMUNICATING
Communication between computers using two identical communications links
[NASA-CASE-NPO-11161] c08 N72-25207

COMMUNICATION
Circuitry for developing autocorrelation function continuously within signal receiving period
[NASA-CASE-XNP-00746] c07 N71-21476
Superconductive resonant cavity for improved signal to noise ratio in communication signal
[NASA-CASE-MSC-12259-2] c07 N72-33146

COMMUNICATION CABLES
Method of making molded electric connector for use with flat conductor cables
[NASA-CASE-XNP-03498] c15 N71-15986
Process for making RF shielded cable connector assemblies and resulting structures
[NASA-CASE-GSC-11215-1] c09 N73-28083
Fiber distributed feedback laser
[NASA-CASE-NPO-13531-1] c36 N76-24553

COMMUNICATION EQUIPMENT
Multiplexed communication system design including automatic correction of transmission errors introduced by frequency spectrum shifts
[NASA-CASE-XNP-01306] c07 N71-20814
Binary data decoding device for use at receiving end of communication channel
[NASA-CASE-NPO-10118] c07 N71-24741
Characteristics of data-aided carrier tracking loop used for tracking carrier in angle modulated communications system
[NASA-CASE-NPO-11282] c10 N73-16205
Doppler compensated communication system for locating supersonic transport position
[NASA-CASE-GSC-10087-4] c07 N73-20174
Differential phase shift keyed communication system
[NASA-CASE-MSC-14065-1] c32 N74-26654

COMMUNICATION SATELLITES
Erectable, inflatable, radio signal reflecting passive communication satellite
[NASA-CASE-XIA-00210] c30 N70-40309
Development of antenna system for spin stabilized communication satellite for simultaneous reception and transmission of data
[NASA-CASE-XGS-02607] c31 N71-23009
Elimination of tracking occultation problems occurring during continuous monitoring of interplanetary missions by using Earth orbiting communications satellite
[NASA-CASE-XAC-06029-1] c31 N71-24813
Satellite radio communication system with remote steerable antenna
[NASA-CASE-XNP-02389] c07 N71-28900
Satellite aided vehicle avoidance system
[NASA-CASE-ERC-10419-1] c03 N75-30132
Ultra stable frequency distribution system
[NASA-CASE-NPO-13836-1] c32 N76-31373

COMMUTATION
High speed low level voltage commutating switch
[NASA-CASE-XAC-00060] c09 N70-39915

COMMUTATORS
Rocket-borne aspect sensor consisting of radiation sensor, apertured disk, commutator, and counting circuits
[NASA-CASE-XGS-08266] c14 N69-27432
Commutator for steering precisely controlled bidirectional currents through numerous loads by use of magnetic core shift registers
[NASA-CASE-NPO-10743] c08 N72-21199

COMPARATOR CIRCUITS
Describing frequency discriminator using digital logic circuits and supplying single binary output signal
[NASA-CASE-MFS-14322] c08 N71-18692
Development of pulsed differential comparator circuit
[NASA-CASE-XLE-03804] c10 N71-19471
Window comparator
[NASA-CASE-FRC-10090-1] c33 N77-11296

COMPARATORS
Photometric flow meter with comparator reference means
[NASA-CASE-XGS-01331] c14 N71-22996
Characteristics of comparator circuits for comparison of binary numbers in information processing system
[NASA-CASE-XNP-04819] c08 N71-23295

COMPENSATORS
Star image motion compensator using telescope for maintaining fixed images
[NASA-CASE-LAR-10523-1] c14 N72-22444

COMPONENTS
Spherical bearing
[NASA-CASE-MFS-23447-1] c37 N77-11403

COMPOSITE MATERIALS
High strength reinforced metallic composites for applications over wide temperature range
[NASA-CASE-XLE-02428] c17 N70-33288
Method for producing fiber reinforced metallic composites with high strength and elasticity over wide temperature range
[NASA-CASE-XLE-00231] c17 N70-38198
Composites reinforced with short metal fibers or whiskers and having high tensile strength
[NASA-CASE-XLE-00228] c17 N70-38490
Unfired-ceramic, highly reflective composite insulation for large launch vehicles
[NASA-CASE-XNP-01030] c18 N70-41583
Freeze casting of metal ceramic and refractory compound powders into plastic slips
[NASA-CASE-XLE-00106] c15 N71-16076
Preparation and characteristics of lightweight refractory insulation
[NASA-CASE-XNP-05279] c18 N71-16124
Flexible composite membrane structure impervious to extremely reactive chemicals in rocket

propellants
[NASA-CASE-XNP-08837] c18 N71-16210
Cryostat for flexure fatigue testing of composite materials
[NASA-CASE-XMF-02964] c14 N71-17659
Description of method for producing metallic composites reinforced with ceramic and refractory hard metals that are fibered in place
[NASA-CASE-XLE-03925] c18 N71-22894
Electrically coupled individually encapsulated solar cell matrix
[NASA-CASE-NPO-11190] c03 N71-34044
Heat treatment and tooling for forming shapes from thermosetting honeycomb core sheets
[NASA-CASE-NPO-11036] c15 N72-24522
Method for making fiber composites with high strength at high temperatures
[NASA-CASE-LEW-10424-2-2] c18 N72-25539
Development of thermal compensating structure which maintains uniform length with changes in temperature
[NASA-CASE-MFS-20433] c15 N72-28496
Bearing material --- composite material with low friction surface for rolling or sliding contact
[NASA-CASE-LEW-11930-1] c24 N76-22309
Fluid seal for rotating shafts
[NASA-CASE-LEW-11676-1] c37 N76-22541
Non-flammable elastomeric fiber from a fluorinated elastomer and containing an halogenated flame retardant
[NASA-CASE-MSC-14331-1] c27 N76-24405
Bearing material
[NASA-CASE-LEW-11930-2] c24 N76-26282
Intumescent-ablator coatings using endothermic fillers
[NASA-CASE-ARC-11043-1] c34 N77-14372
Method of growing composites of the type exhibiting the Soret effect --- improved structure of eutectic alloy crystals
[NASA-CASE-MFS-22926-1] c24 N77-27187
Hybrid composite laminate structures
[NASA-CASE-LEW-12118-1] c24 N77-27188
Catalytic trimerization of aromatic nitriles and triayl-s-triazine ring cross-linked high temperature resistant polymers and copolymers made thereby
[NASA-CASE-LEW-12053-2] c23 N77-32244
Bearing material
[NASA-CASE-LEW-11930-3] c24 N77-32249

COMPOSITE PROPELLANTS
Ammonium perchlorate composite propellant with organic Cu/II/ chelate catalytic additive
[NASA-CASE-LAR-10173-1] c27 N71-14090
Molded composite pyrogen igniter for rocket motors
[NASA-CASE-LAR-12018-1] c20 N76-29365

COMPOSITE STRUCTURES
Inflatable honeycomb panel element for lightweight structures usable in space stations and other construction
[NASA-CASE-XLA-00204] c32 N70-36536
Shrouded composite propulsion system configuration
[NASA-CASE-XLA-01043] c28 N71-10780
Development of composite structures for spacecraft to serve as anti-meteoroid device
[NASA-CASE-LAR-10788-1] c31 N73-20880
Bonding method in the manufacture of continuous regression rate sensor devices
[NASA-CASE-LAR-10337-1] c24 N75-30260
Varying density composite structure
[NASA-CASE-LAR-11181-1] c39 N75-31479
Leading edge protection for composite blades
[NASA-CASE-LEW-12550-1] c24 N77-19170
Composite lamination method --- of resin impregnated fiber tape
[NASA-CASE-LAR-12019-1] c24 N77-22179
Composite sandwich lattice structure
[NASA-CASE-LAR-11898-2] c24 N77-26242

COMPOSITION (PROPERTY)
Moving particle composition analyzer
[NASA-CASE-GSC-11889-1] c35 N76-16393
Flame retardant elastomeric compositions
[NASA-CASE-MSC-14331-2] c27 N76-24408
Flame retardant elastomeric compositions
[NASA-CASE-MSC-14331-3] c27 N76-24409

COMPRESSED AIR
Actuator using compressed gas as driving force to control valve handling large liquid flows
[NASA-CASE-XHQ-01208] c15 N70-35409

COMPRESSED GAS
Gas compression analysis --- for oxygen supply equipment
[NASA-CASE-MSC-14757-1] c37 N76-13496

COMPRESSIBLE FLUIDS
Capacitor for measuring density of compressible fluid in liquid, gas, or liquid and gas phases
[NASA-CASE-XLE-00143] c14 N70-36618
Apparatus for tensile strength testing of specimen by pressurized fluid
[NASA-CASE-XNS-06250] c14 N71-15600

COMPRESSING
Method and apparatus for producing very low temperature refrigeration based on gas pressure balance
[NASA-CASE-XNP-08877] c15 N71-23025
Method for compression molding of thermosetting plastics utilizing a temperature gradient across the plastic to cure the article
[NASA-CASE-LAR-10489-1] c31 N74-18124

COMPRESSION LOADS
Pressure transducer for systems for measuring forces of compression
[NASA-CASE-NPO-10832] c14 N72-21405
Solid medium thermal engine
[NASA-CASE-ARC-10461-1] c44 N74-33379

COMPRESSION TESTS
Test equipment to prevent buckling of small diameter specimens during compression tests
[NASA-CASE-LAR-10440-1] c14 N73-32323
Anti-buckling fatigue test assembly --- for subjecting metal specimen to tensile and compressive loads at constant temperature
[NASA-CASE-LAR-10426-1] c09 N74-19528

COMPRESSOR BLADES
Process for welding compressor and turbine blades to rotors and discs of jet engines
[NASA-CASE-LEW-10533-1] c15 N73-28515

COMPRESSORS
Thermal pump-compressor for converting solar energy
[NASA-CASE-XLA-00377] c33 N71-17610
Gas compression analysis --- for oxygen supply equipment
[NASA-CASE-MSC-14757-1] c37 N76-13496
Self-energized plasma compressor
[NASA-CASE-MFS-22145-2] c75 N76-17951

COMPUTATION
Apparatus for computing square roots
[NASA-CASE-XGS-04768] c08 N71-19437

COMPUTER COMPONENTS
Computer circuit performing both counting and shifting logic operations also capable of miniaturization and integration in basic circuits
[NASA-CASE-XNP-01753] c08 N71-22897

COMPUTER DESIGN
Two-dimensional radiant energy array computers and computing devices
[NASA-CASE-GSC-11839-1] c60 N77-14751

COMPUTER GRAPHICS
System for digitizing graphic displays
[NASA-CASE-NPO-10745] c08 N72-22164

COMPUTER PROGRAMMING
Encoders designed to generate comma free biorthogonal Reed-Muller type code comprising conversion of 64 6-bit words into 64 32-bit data for communication purposes
[NASA-CASE-NPO-10595] c10 N71-25917
Priority interrupt system --- comprised of four registers
[NASA-CASE-NPO-13067-1] c60 N76-18800

COMPUTER PROGRAMS
Self testing and repairing computer comprising control and diagnostic unit and rollback points for error correction
[NASA-CASE-NPO-10567] c08 N71-24633
Development of computer program for estimating reliability of self-repair and fault-tolerant systems with respect to selected system and mission parameters
[NASA-CASE-NPO-13086-1] c15 N73-12495
Development of flight simulator system to show position of joystick displacement
[NASA-CASE-NPO-11497] c08 N73-25206

COMPUTER STORAGE DEVICES
Magnetic matrix memory system for nondestructive reading of information contained in matrix
[NASA-CASE-XMF-05835] c08 N71-12504

Binary sequence detector with few memory elements and minimized logic circuit complexity
[NASA-CASE-XNP-05415] c08 N71-12505
Pulsed magnetic core memory element with blocking oscillator feedback for interrogation without loss of digital information
[NASA-CASE-XGS-03303] c08 N71-18595
Reliable magnetic core circuit apparatus with application in selection matrices for digital memories
[NASA-CASE-XNP-01318] c10 N71-23033
Time division multiplexed telemetry transmitting system controlled by programmed memory
[NASA-CASE-GSC-10131-1] c07 N71-24624
Serial digital decoder design with square circuit matrix and serial memory storage units
[NASA-CASE-NPO-10150] c08 N71-24650
Digital memory system with multiple switch cores for driving each word location
[NASA-CASE-XNP-01466] c10 N71-26434
Redundant memory for enhanced reliability of digital data processing system
[NASA-CASE-GSC-10564] c10 N71-29135
Memory device employing semiconductor and ferroelectric properties of single crystal barium titanate
[NASA-CASE-ERC-10307] c08 N72-21198
Shared memory for a fault-tolerant computer
[NASA-CASE-NPO-13139-1] c60 N76-21914
Lightning current waveform measuring system
[NASA-CASE-KSC-11018-1] c33 N77-21320

COMPUTER SYSTEMS DESIGN
Adaptive voting computer system
[NASA-CASE-MSC-13932-1] c62 N74-14920
Computer interface system
[NASA-CASE-NPO-13428-1] c60 N77-12721

COMPUTER TECHNIQUES
Automated system for identifying traces of organic chemical compounds in aqueous solutions
[NASA-CASE-NPO-13063-1] c25 N76-18245
Computerized system for translating a torch head
[NASA-CASE-MFS-23620-1] c37 N77-24497
Apparatus for determining thermophysical properties of test specimens
[NASA-CASE-LAR-11883-1] c09 N77-27131

COMPUTERIZED DESIGN
Simulator for practicing the mating of an observer-controlled object with a target
[NASA-CASE-MFS-23052-2] c14 N77-18179

COMPUTERIZED SIMULATION
Integrated time shared instrumentation display for aerospace vehicle simulators
[NASA-CASE-XLA-01952] c08 N71-12507

COMPUTERS
Telemetry data unit to form multibit words for use between demodulator and computer
[NASA-CASE-XNP-09225] c09 N69-24333
Data compression processor for monitoring analog signals by sampling procedure
[NASA-CASE-NPO-10068] c08 N71-19288
Communication between computers using two identical communications links
[NASA-CASE-NPO-11161] c08 N72-25207

CONCAVITY
Concave grating spectrometer for use in near and vacuum ultraviolet regions
[NASA-CASE-XGS-01036] c14 N70-40003

CONCENTRATORS
Concentrator device for controlling direction of solar energy onto energy converters
[NASA-CASE-XLE-01716] c09 N70-40234
Thermostatically controlled non-tracking type solar energy concentrator
[NASA-CASE-NPO-13497-1] c44 N76-14602
A non-tracking solar energy collector system
[NASA-CASE-NPO-13817-1] c44 N77-28583
Three-dimensional tracking solar energy concentrator and method for making same
[NASA-CASE-NPO-13736-1] c44 N77-32583

CONDENSATES
Apparatus for determining volatile condensable material present in polymeric products
[NASA-CASE-XNP-09699] c06 N71-24607
Condensate removal device for heat exchanger
[NASA-CASE-MSC-14143-1] c77 N75-20139

CONDENSERS (LIQUIFIERS)
Condenser-separator for dehumidifying air utilizing sintered metal surface
[NASA-CASE-XLA-08645] c15 N69-21465
Condensate removal device for heat exchanger
[NASA-CASE-MSC-14143-1] c77 N75-20139

CONDUCTING FLUIDS
Multiducted electromagnetic pump for conductive liquids
[NASA-CASE-NPO-10755] c15 N71-27084
Internally supported flexible duct joint --- device for conducting fluids in high pressure systems
[NASA-CASE-MFS-19193-1] c37 N75-19686

CONDUCTIVE HEAT TRANSFER
Measuring conductive heat flow and thermal conductivity of laminar gas stream in cylindrical plug to simulate atmospheric reentry
[NASA-CASE-XLE-00266] c14 N70-34156
Space suit body heat exchanger design composed of thermal conductance yarn and liquid coolant loops
[NASA-CASE-XMS-09571] c05 N71-19439
Compact pulsed laser having improved heat conductance
[NASA-CASE-NPO-13147-1] c36 N77-25502

CONDUCTORS
Support for flexible conductor cable between drawers or racks holding electronic equipment and cabinet assembly housing drawers or racks
[NASA-CASE-XNP-07587] c15 N71-18701
Method for making conductors for ferrite memory arrays --- from pre-formed metal conductors
[NASA-CASE-LAR-10994-1] c24 N75-13032

CONES
Black body radiometer design with temperature sensing and cavity heat source cone winding
[NASA-CASE-XNP-09701] c14 N71-26475

CONFINEMENT
Observation window for internal gas confining chamber
[NASA-CASE-NPO-10890] c11 N73-12265

CONICAL BODIES
Conical valve plug for use with reactive cryogenic fluids
[NASA-CASE-XLE-00715] c15 N70-34859
Conical reflector antenna with feed approximating line source
[NASA-CASE-NPO-10303] c07 N72-22127
Characteristics of microwave antenna with conical reflectors to generate plane wave front
[NASA-CASE-NPO-11661] c07 N73-14130

CONICAL SHELLS
Capacitance measuring device for determining flare accuracy on tapered tubes
[NASA-CASE-XKS-03495] c14 N69-39785
Foldable, double cone and parabolic reflector system for solar ray concentration
[NASA-CASE-XLA-04622] c03 N70-41580
Rotary spindle lathe attachments for machining geometrical cones
[NASA-CASE-XMS-04292] c15 N71-22722

CONNECTORS
Expanding and contracting connector strip for solar cell array of Nimbus satellite
[NASA-CASE-XGS-01395] c03 N69-21539
Design and development of quick release connector
[NASA-CASE-XLA-01141] c15 N71-13789
Development and characteristics of strainer for flared tube fitting
[NASA-CASE-XLA-05056] c15 N72-11389
Process for making RF shielded cable connector assemblies and resulting structures
[NASA-CASE-GSC-11215-1] c09 N73-28083

CONSCIOUSNESS
Development of apparatus and method for quantitatively measuring brain activity as automatic indication of sleep state and level of consciousness
[NASA-CASE-MSC-13282-1] c05 N71-24729

CONSTANTS
Spring operated accelerator and constant force spring mechanism therefor
[NASA-CASE-ARC-10898-1] c35 N77-18417

CONSTRAINTS
Three stage motion restraining mechanism for restraining and damping three dimensional vibrational movement of gimballed package during launch of spacecraft
[NASA-CASE-GSC-10306-1] c15 N71-24694
Cable guide and restraint device for reefing tubes in uniform manner
[NASA-CASE-LAR-10129-1] c15 N73-25512

Development of restraint system for securing personnel to ergometer while exercising under weightless conditions
[NASA-CASE-MFS-21046-1] c14 N73-27377
Reefing system
[NASA-CASE-LAR-10129-2] c37 N74-20063

CONSTRUCTION MATERIALS
Apparatus and method of assembling building blocks by folding pre-cut flat sheets of material during on-site construction
[NASA-CASE-MSC-12233-1] c15 N72-25454
Development of construction block in form of container folded from flat sheet and filled with solid material for architectural purposes
[NASA-CASE-MSC-12233-2] c32 N73-13921

CONTACT POTENTIALS
Lightweight, rugged, inexpensive satellite battery for producing electrical power from ionosphere using electrodes with different contact potentials
[NASA-CASE-XGS-01593] c03 N70-35408

CONTACT RESISTANCE
Bearing material
[NASA-CASE-LEW-11930-3] c24 N77-32249

CONTAINERLESS MELTS
Method of crystallization --- in gravity-free environments
[NASA-CASE-MFS-23001-1] c76 N77-32919

CONTAINERS
Manufacture of fluid containers from fused coated polyester sheets having resealable septum
[NASA-CASE-NPO-10123] c15 N71-24835
Method for locating leaks in hermetically sealed containers
[NASA-CASE-ERC-10045] c15 N71-24910
Quantitative liquid measurements in container by resonant frequencies
[NASA-CASE-XNP-02500] c18 N71-27397

CONTAMINANTS
Fluid transferring system design for purging toxic, corrosive, or noxious fluids and fumes from materials handling equipment for cleansing and accident prevention
[NASA-CASE-XMS-01905] c12 N71-21089

CONTAMINATION
Emission spectroscopy method for contamination monitoring of inert gas metal arc welding
[NASA-CASE-XMF-02039] c15 N71-15871
Contamination free separation nut eliminating combustion products from ambient surroundings generated by squib firing
[NASA-CASE-XGS-01971] c15 N71-15922
Apparatus and process for volumetrically dispensing reagent quantities of volatile chemicals for small batch reactions
[NASA-CASE-NPO-10070] c15 N71-27372
Portable tester for monitoring bacterial contamination by adenosine triphosphate light reaction
[NASA-CASE-GSC-10879-1] c14 N72-25413

CONTINUOUS RADIATION
A CW ultrasonic bolt tensioning monitor
[NASA-CASE-LAR-12016-1] c32 N77-15236

CONTINUOUS WAVE LASERS
High power laser apparatus and system
[NASA-CASE-XLE-2529-2] c36 N75-27364
Continuous plasma laser --- method and apparatus for producing intense, coherent, monochromatic light from low temperature plasma
[NASA-CASE-XNP-04167-3] c36 N77-19416
Stabilization of He2(a-3 Sigmau(+)) molecules in liquid helium by optical pumping for vacuum UV laser
[NASA-CASE-NPO-13993-1] c36 N77-24468

CONTINUOUS WAVE RADAR
Phase locked loop with sideband rejecting properties in continuous wave tracking radar
[NASA-CASE-XNP-02723] c07 N70-41680
FM/CW radar system
[NASA-CASE-MFS-22234-1] c32 N76-33364

CONTOURS
Describing device for surveying contour of surface using X-Y plotter and traveling transducer
[NASA-CASE-XLA-08646] c14 N71-17586
Processing system for semiperiodic electrical signals to produce real time contoured display
[NASA-CASE-MSC-13407-1] c10 N72-20225
Device for measuring the contour of a surface
[NASA-CASE-LAR-11869-1] c35 N77-10497
Contour detector and data acquisition system for the left ventricular outline
[NASA-CASE-ARC-10985-1] c52 N77-17701

CONTROL
Valve assembly for controlling simultaneously more than one fluid flow, and having stable qualities under loads
[NASA-CASE-XMS-05890] c09 N71-23191
Control system for pressure balance device used in calibrating pressure gages
[NASA-CASE-XMF-04134] c14 N71-23755
Failure detection and control means for improved drift performance of a gimballed platform system
[NASA-CASE-MFS-23551-1] c04 N76-26175

CONTROL BOARDS
Ionization control system design for monitoring separately located ion gage pressures,on vacuum chambers
[NASA-CASE-XLE-00787] c14 N71-21090

CONTROL DATA (COMPUTERS)
Computer interface system
[NASA-CASE-NPO-13428-1] c60 N77-12721

CONTROL EQUIPMENT
Stepping motor control apparatus exciting windings in proper time sequence to cause motor to rotate in either direction
[NASA-CASE-GSC-10366-1] c10 N71-18772
Voltage drift compensation circuit for analog-to-digital converter
[NASA-CASE-XNP-04780] c08 N71-19687
Development of attitude control system for vertical takeoff aircraft using reaction nozzles displaced from various axes of aircraft
[NASA-CASE-XAC-08972] c02 N71-20570
Device for controlling rotary potentiometer mounted on aircraft steering wheel or aileron control
[NASA-CASE-XAC-10019] c15 N71-23809
Controlled release device for use in launching rockets or missiles
[NASA-CASE-XKS-03338] c15 N71-24043
Circuits for controlling reversible dc motor
[NASA-CASE-XNP-07477] c09 N71-26092
Digital memory system with multiple switch cores for driving each word location
[NASA-CASE-XNP-01466] c10 N71-26434
Fluid control jet amplifiers
[NASA-CASE-XLE-09341] c12 N71-28741
System for control of variable signal generator
[NASA-CASE-NPO-11064] c07 N72-11150
Solid state remote circuit selector switching circuit
[NASA-CASE-LEW-10387] c09 N72-22201
Development of device for simulating charge and discharge cycle of battery in synchronous orbit
[NASA-CASE-GSC-11211-1] c03 N72-25020
Bridge-type gain control circuit
[NASA-CASE-GSC-10786-1] c10 N72-28241
Interferometer prism and control system for precisely determining direction to remote light source
[NASA-CASE-ARC-10278-1] c14 N73-25463
Digital controller for a Baum folding machine --- providing automatic counting and machine shutoff
[NASA-CASE-LAR-10688-1] c37 N74-21056
Flow control valve --- for high temperature fluids
[NASA-CASE-NPO-11951-1] c37 N74-21065
Variable ratio mixed-mode bilateral master-slave control system for shuttle remote manipulator system
[NASA-CASE-MSC-14245-1] c18 N75-27041
Control for nuclear thermionic power source --- power supply circuits, energy policy
[NASA-CASE-NPO-13114-2] c44 N76-15573
Illumination control apparatus for compensating solar light
[NASA-CASE-KSC-11010-1] c44 N77-15493
Anthropomorphic master/slave manipulator system
[NASA-CASE-ARC-10756-1] c54 N77-32721

CONTROL ROCKETS
Unit for generating thrust from catalytic decomposition of hydrogen peroxide, for high altitude aircraft or spacecraft reaction control
[NASA-CASE-XMS-00583] c28 N70-38504

CONTROL RODS
Nuclear reactor control rod assembly with

improved driving mechanism
[NASA-CASE-XLE-00298] c22 N70-34501
Manual control mechanism for adjusting control rod to null position
[NASA-CASE-XLA-01808] c15 N71-20740
CONTROL STABILITY
Design and development of active control system for air cushion vehicle to reduce or eliminate effects of excessive vertical vibratory acceleration
[NASA-CASE-LAR-10531-1] c02 N73-13023
CONTROL SURFACES
Conical valve plug for use with reactive cryogenic fluids
[NASA-CASE-XLE-00715] c15 N70-34859
Attitude control system for spacecraft based on conversion of incident solar radiation on movable control surfaces into mechanical torques
[NASA-CASE-XNP-02982] c31 N70-41855
Vortex-lift roll-control device
[NASA-CASE-LAR-11868-2] c08 N77-31176
CONTROL UNITS (COMPUTERS)
Self testing and repairing computer comprising control and diagnostic unit and rollback points for error correction
[NASA-CASE-NPO-10567] c08 N71-24633
CONTROL VALVES
Electromechanical actuator and its use in rocket thrust control valve
[NASA-CASE-XNP-05975] c15 N69-23185
Multiple orifice fluid flow control valve to provide different flow patterns
[NASA-CASE-ERC-10208] c15 N70-10867
Conical valve plug for use with reactive cryogenic fluids
[NASA-CASE-XLE-00715] c15 N70-34859
Control valve and coaxial variable injector for controlling bipropellant mixture ratio and flow
[NASA-CASE-XNP-09702] c15 N71-17654
Control valve for switching main stream of fluid from one stable position to another by means of electrohydrodynamic forces
[NASA-CASE-NPO-10416] c12 N71-27332
Force balanced throttle valve for fuel control in rocket engines
[NASA-CASE-NPO-10808] c15 N71-27432
Dual stage check valve for cryogenic supply systems used in space flight environmental control system
[NASA-CASE-MSC-13587-1] c15 N73-30459
Airflow control system for supersonic inlets
[NASA-CASE-LEW-11188-1] c02 N74-20646
Ultrasonically bonded valve assembly
[NASA-CASE-NPO-13360-1] c37 N75-25185
Fluid valve assembly
[NASA-CASE-MSC-12731-1] c37 N76-26511
Pressure modulating valve
[NASA-CASE-MSC-14905-1] c37 N77-28487
CONTROLLED ATMOSPHERES
Rectangular electric conductors for conductor cables to withstand spacecraft vibration and controlled atmosphere
[NASA-CASE-MFS-14741] c09 N70-20737
High voltage pulse generator for testing flash and ignition limits of nonmetallic materials in controlled atmospheres
[NASA-CASE-MSC-12178-1] c09 N71-13518
System for continuous monitoring of exhalations, weighing, and cage cleaning for animal exposed to controlled atmosphere for toxic study
[NASA-CASE-XAC-05333] c11 N71-22875
CONTROLLERS
Unitary three-axis controller for flight vehicles within or outside atmosphere
[NASA-CASE-XFR-00181] c21 N70-33279
Two axis flight controller with potentiometer control shafts directly coupled to rotatable ball members
[NASA-CASE-XFR-04104] c03 N70-42073
Hand controller operable about three respectively perpendicular axes and capable of actuating signal generators for attitude control devices
[NASA-CASE-XMS-07487] c15 N71-23255
Solid state controller three axes controller
[NASA-CASE-MSC-12394-1] c08 N74-10942
Wide power range microwave feedback controller
[NASA-CASE-GSC-12146-1] c33 N77-21322
CONVECTIVE FLOW
Design and development of device to prevent geysering during convective circulation of cryogenic fluids
[NASA-CASE-KSC-10615] c15 N73-12486
CONVECTIVE HEAT TRANSFER
Thin film gauge --- for measuring convective heat transfer rates along test surfaces in wind tunnels
[NASA-CASE-NPO-10617-1] c35 N74-22095
CONVERGENCE
Electrical device for developing converging spherical shock waves
[NASA-CASE-MFS-20890] c14 N72-22439
CONVERGENT NOZZLES
Nozzle extraction process and handlemeter for measuring handle
[NASA-CASE-LAR-12147-1] c27 N77-10198
CONVERGENT-DIVERGENT NOZZLES
Gimbaled partially submerged nozzle for solid propellant rocket engines for providing directional control
[NASA-CASE-XMF-01544] c28 N70-34162
Regenerative cooling system for rocket combustion chamber using coolant tubes in convergent-divergent nozzle
[NASA-CASE-XLE-04857] c28 N71-23968
CONVERTERS
Scan converting video tape recorder
[NASA-CASE-NPO-10166-2] c35 N76-16391
Low intensity X-ray and gamma-ray imaging device
[NASA-CASE-GSC-12263-1] c35 N77-29471
COOLANTS
Simulated fuel assembly-type flow measurement apparatus for coolant flow in reactor core
[NASA-CASE-XLE-00724] c14 N70-34669
COOLING
Microwave power receiving antenna solving heat dissipation problems by construction of elements as heat pipe devices
[NASA-CASE-MFS-20333] c09 N71-13486
Dissipative voltage regulator system for minimizing heat dissipation
[NASA-CASE-GSC-10891-1] c10 N71-26626
Cooling and radiation protection of ruby lasers using copper sulfate solution in alcohol
[NASA-CASE-MFS-20180] c16 N72-12440
Compact pulsed laser having improved heat conductance
[NASA-CASE-NPO-13147-1] c36 N77-25502
Closed loop spray cooling apparatus
[NASA-CASE-LEW-11981-2] c34 N77-32434
COOLING SYSTEMS
Automatic thermal switch for improving efficiency of cooling gases below 40 K
[NASA-CASE-XNP-03796] c23 N71-15467
Differential thermopile for measuring cooling water temperature rise
[NASA-CASE-XAC-00812] c14 N71-15598
Electric power system with circulatory liquid coolant cooling system
[NASA-CASE-MFS-14114-2] c09 N71-24807
Portable cryogenic cooling system design including turbine pump, cooling chamber, and atomizer
[NASA-CASE-NPO-10467] c23 N71-26654
Development and characteristics of natural circulation radiator for use with nuclear power plants installed in lunar space stations
[NASA-CASE-XHQ-03673] c33 N71-29046
Development and characteristics of cooling system to maintain temperature of rack mounted electronic modules
[NASA-CASE-MSC-12389] c33 N71-29052
Development of method for cooling high temperature wall members with cooling medium having high heat absorption capability
[NASA-CASE-HQN-00938] c33 N71-29053
Apparatus for liquid spray cooling of turbine blades
[NASA-CASE-XLE-00027] c33 N71-29152
Radial heat flux transformer for use in heating and cooling processes
[NASA-CASE-NPO-10828] c33 N72-17948
Light shield and cooling apparatus --- high intensity ultraviolet lamp
[NASA-CASE-LAR-10089-1] c34 N74-23066
Heat exchanger --- rocket combustion chambers and cooling systems

[NASA-CASE-LEW-12252-1] c34 N75-19579
Refrigerated coaxial coupling --- for microwave equipment
[NASA-CASE-NPO-13504-1] c33 N75-30430
Rocket chamber and method of making
[NASA-CASE-LEW-11118-2] c20 N76-14191
Closed loop spray cooling apparatus --- for particle accelerator targets
[NASA-CASE-LEW-11981-1] c37 N76-20486
Auxiliary power system for activity cooled aircraft
[NASA-CASE-LAR-11626-1] c34 N77-12332
An improved cooling system for removing metabolic heat from an hermetically sealed spacesuit
[NASA-CASE-ARC-11059-1] c54 N77-14743
Multistation refrigeration system
[NASA-CASE-NPO-13839-1] c31 N77-15219
Tubular sublimatory evaporator heat sink
[NASA-CASE-ARC-10912-1] c34 N77-19353
Arc control in compact arc lamps
[NASA-CASE-NPO-10870-1] c33 N77-22386
Oil cooling system for a gas turbine engine
[NASA-CASE-LEW-12830-1] c07 N77-23106

COORDINATES
Mechanical coordinate converter for use with spacecraft tracking antennas
[NASA-CASE-XNP-00614] c14 N70-36907
System for locating lightning strokes by coordination of directional antenna signals
[NASA-CASE-KSC-10729-1] c09 N73-32110
Magnetic heading reference
[NASA-CASE-LAR-11387-2] c04 N77-19056

COPOLYMERS
Method for producing alternating ether-siloxane copolymers with stable properties when exposed to elevated temperatures and UV radiation
[NASA-CASE-XNP-02584] c06 N71-20905
Preparation of dicyanoacetylene and vinylidene copolymers using organic compounds
[NASA-CASE-XNP-03250] c06 N71-23500

COPPER
Development of method for etching copper
[NASA-CASE-XGS-06306] c17 N71-16044
Method of plating copper on aluminum to permit conventional soldering of structural aluminum bodies
[NASA-CASE-XLA-08966-1] c17 N71-25903
Brazing alloy composition
[NASA-CASE-XNP-06053] c26 N75-27126
Aluminum or copper substrate panel for selective absorption of solar energy and the method of producing said panel
[NASA-CASE-MFS-23518-1] c44 N77-31610

COPPER ALLOYS
Zirconium modified nickel-copper alloy
[NASA-CASE-LEW-12245-1] c26 N77-20201

COPPER COMPOUNDS
Gallium arsenide solar cell preparation by surface deposition of cuprous iodide on thin n-type polycrystalline layers and heating in iodine vapor
[NASA-CASE-XNP-01960] c09 N71-23027
Cooling and radiation protection of ruby lasers using copper sulfate solution in alcohol
[NASA-CASE-MFS-20180] c16 N72-12440
Brazing alloy
[NASA-CASE-XNP-03878] c26 N75-27127

COPPER FLUORIDES
Method to produce high purity copper fluoride by heating copper hydroxyfluoride powder and subjecting to flowing fluorine gas
[NASA-CASE-LEW-10794-1] c06 N72-17093

CORDAGE
Fabrication of root cord restrained fabric suit sections from sheets of fabric
[NASA-CASE-MSC-12398] c05 N72-20098

CORE STORAGE
Memory device employing semiconductor and ferroelectric properties of single crystal barium titanate
[NASA-CASE-EEC-10307] c08 N72-21198

CORES
Method of making rolling element bearings
[NASA-CASE-LEW-11087-2] c37 N74-15128
Electromagnetic transducer recording head having a laminated core section and tapered gap
[NASA-CASE-NPO-10711-1] c35 N77-21392

CORRECTION
Doppler frequency shift correction device for multiplex communication with Applications Technology Satellites
[NASA-CASE-XGS-02749] c07 N69-39978

CORRELATION DETECTION
Correlation type phase detector --- with time correlation integrator for frequency multiplexed signals
[NASA-CASE-GSC-11744-1] c33 N75-26243

CORRELATORS
Synchronous detection system for detecting weak radio astronomical signals
[NASA-CASE-XNP-09832] c30 N71-23723
Digital demodulator-correlator --- for rangefinding
[NASA-CASE-NPO-13982-1] c32 N77-24341

CORROSION PREVENTION
Vapor deposited laminated nitride-silicon coating for corrosion prevention of carbonaceous surfaces
[NASA-CASE-XLA-00284] c15 N71-16075
Method to prevent stress corrosion cracking in titanium alloys
[NASA-CASE-NPO-10271] c17 N71-16393
Method and apparatus for inducing compressive stresses in pressure vessel to prevent stress corrosion
[NASA-CASE-XLA-07390] c15 N71-18616
Development of fluoride coating to prevent oxidation of beryllium surfaces at elevated temperatures
[NASA-CASE-LEW-10327] c17 N71-33408
Prevention of hydrogen embrittlement of high strength steel by hydrazine compositions --- by adding potassium hydroxide to hydrazine
[NASA-CASE-NPO-12122-1] c24 N76-14203

CORROSION RESISTANCE
High strength, corrosion resistant cobalt-based alloys for aerospace structures
[NASA-CASE-XLE-00726] c17 N71-15644
Hydrazine monoperfluoro alkanoate solder flux leaving corrosion resistant coating, for metals such as copper
[NASA-CASE-XNP-03459-2] c18 N71-15688
High temperature cobalt-base alloy resistant to corrosion by liquid metals and to sublimation in vacuum environment
[NASA-CASE-XLE-02991] c17 N71-16025
Metal soldering with hydrazine monoperfluoro alkanoate for corrosion resistant coatings
[NASA-CASE-XNP-03459] c15 N71-21078
Improved nozzle for use with abrasive and/or corrosive materials
[NASA-CASE-NPO-13823-1] c37 N77-17466

COSINE SERIES
Service life of electromechanical device for generating sine/cosine functions
[NASA-CASE-LAR-10503-1] c09 N72-21248
Function generators for producing complex vibration mode patterns used to identify vibration mode data
[NASA-CASE-LAR-10310-1] c10 N73-20253

COSMIC DUST
Sensor for detecting and measuring energy, velocity and direction of travel of a cosmic dust particle
[NASA-CASE-GSC-10503-1] c14 N72-20381
System for detecting impact position of cosmic dust on detector surface
[NASA-CASE-GSC-11291-1] c25 N72-33696
Impact position detector for outer space particles
[NASA-CASE-GSC-11829-1] c35 N75-27331
Cosmic dust analyzer
[NASA-CASE-MSC-13802-2] c35 N76-15431

COST EFFECTIVENESS
Solar pond
[NASA-CASE-NPO-13581-2] c44 N77-28584

COST REDUCTION
Low cost solar energy collection system
[NASA-CASE-NPO-13579-1] c44 N75-28519

COUCHES
Shock absorbing couch for body support under high acceleration or deceleration forces
[NASA-CASE-XMS-01240] c05 N70-35152
Low onset rate energy absorber in form of strut assembly for crew couch of Apollo command module
[NASA-CASE-MSC-12279-1] c15 N70-35679

Shock absorbing articulated multiple couch assembly
[NASA-CASE-MSC-11253] c05 N71-12343
Collapsible couch system for manned space vehicles
[NASA-CASE-MSC-13140] c05 N72-11085
COULOMETERS
Alkaline-type coulometer cell for primary charge control in secondary battery recharge circuits
[NASA-CASE-XGS-05434] c03 N71-20491
Development and characteristics of battery charging circuits with coulometer for control of available current
[NASA-CASE-GSC-10487-1] c03 N71-24719
COUNTERS
Circuit for measuring wide range of pulse rates by utilizing high capacity counter
[NASA-CASE-XNP-06234] c10 N71-27137
Electronic strain level counter on in-flight aircraft
[NASA-CASE-LAR-10756-1] c32 N73-26910
COUNTING CIRCUITS
Rocket-borne aspect sensor consisting of radiation sensor, apertured disk, commutator, and counting circuits
[NASA-CASE-XGS-08266] c14 N69-27432
Design of transistorized ring counter circuit with special steering and triggering circuits
[NASA-CASE-XGS-03095] c09 N69-27463
Counter-divider circuit for accuracy and reliability in binary circuits
[NASA-CASE-XMF-00421] c09 N70-34502
Reversible ring counter using cascaded single silicon controlled rectifier stages
[NASA-CASE-XGS-01473] c09 N71-10673
Capacitor sandwich structure containing metal sheets of known thickness for counting penetration rates of meteoroids
[NASA-CASE-XLE-01246] c14 N71-10797
Electronic counter circuit utilizing magnetic core and low power consumption
[NASA-CASE-XNP-08836] c09 N71-12515
Synchronous counter design incorporating cascaded binary stages driven by previous stages and inputs through NAND gates
[NASA-CASE-XGS-02440] c08 N71-19432
Digital cardiotachometer incorporating circuit for measuring heartbeat rate of subject over predetermined portion of one minute also converting rate to beats per minute
[NASA-CASE-XMS-02399] c05 N71-22896
Computer circuit performing both counting and shifting logic operations also capable of miniaturization and integration in basic circuits
[NASA-CASE-XNP-01753] c08 N71-22897
Noninterruptable digital counter circuit design with display device for pulse frequency modulation
[NASA-CASE-XNP-09759] c08 N71-24891
Diode-quad bridge circuit means
[NASA-CASE-ARC-10364-2(B)] c33 N74-14941
Frequency measurement by coincidence detection with standard frequency
[NASA-CASE-MSC-14649-1] c33 N76-16331
COUPLED MODES
Dual mode solid state power switch
[NASA-CASE-MFS-22880-1] c33 N76-31410
COUPLING
Coupling device for linear shaped charge for space vehicle abort system
[NASA-CASE-XLA-00189] c33 N70-36846
Base support for expansible and contractible coupling between two members
[NASA-CASE-NPO-11059] c15 N72-17454
COUPLING CIRCUITS
Interrogator and current driver circuit for combination with transistor flip-flop circuit
[NASA-CASE-XGS-03058] c10 N71-19547
Antenna array at focal plane of reflector with coupling network for beam switching
[NASA-CASE-GSC-10220-1] c07 N71-27233
Phase modulator with tuned variable length electrical lines including coupling and varactor diode circuits
[NASA-CASE-MSC-13201-1] c07 N71-28429
High efficiency transformerless amplitude modulator coupled to RF power amplifier
[NASA-CASE-GSC-10668-1] c07 N71-28430
Automatic quadrature control and measuring system --- using optical coupling circuitry
[NASA-CASE-MFS-21660-1] c35 N74-21017
Diode-quad bridge circuit means
[NASA-CASE-ARC-10364-3] c33 N75-19520
Rotating joint signal coupler
[NASA-CASE-LAR-11264-1] c33 N75-27261
COUPLINGS
Releasable coupling device designed to receive and retain matching ends of electrical connectors
[NASA-CASE-XMS-07846-1] c09 N69-21927
Stage separation using remote control release of joint with explosive insert
[NASA-CASE-XLA-02854] c15 N69-27490
Space vehicle stage coupling and quick release separation mechanism
[NASA-CASE-XLA-01441] c15 N70-41679
Standard coupling design for mass production
[NASA-CASE-XMS-02532] c15 N70-41808
Quick-release coupling for fueling rocket vehicles with cryogenic propellants
[NASA-CASE-XKS-01985] c15 N71-10782
Ratchet mechanism for high speed operation at reduced backlash
[NASA-CASE-MFS-12805] c15 N71-17805
Split nut and bolt separation device
[NASA-CASE-XNP-06914] c15 N71-21489
Quick disconnect duct coupling device for single-handed operation
[NASA-CASE-MFS-20395] c15 N71-24903
Coupling arrangement for isolating torque loads from axial, radial, and bending loads
[NASA-CASE-XLA-04897] c15 N72-22482
Refrigerated coaxial coupling --- for microwave equipment
[NASA-CASE-NPO-13504-1] c33 N75-30430
Opto-mechanical subsystem with temperature compensation through isothemal design
[NASA-CASE-GSC-12059-1] c35 N77-27366
COVERINGS
Apparatus for ejecting covers of instrument packages using differential pressure principle
[NASA-CASE-XMF-04132] c15 N69-27502
CRACKING (FRACTURING)
Method to prevent stress corrosion cracking in titanium alloys
[NASA-CASE-NPO-10271] c17 N71-16393
TV fatigue crack monitoring system
[NASA-CASE-LAR-11490-1] c35 N76-28530
CRASH LANDING
Aircraft-mounted crash-activated transmitter device
[NASA-CASE-MFS-16609-3] c03 N76-32140
CREEP RUPTURE STRENGTH
Nickel base alloy with resistance to oxidation at high temperatures and superior stress-rupture properties
[NASA-CASE-XLE-02082] c17 N71-16026
CRITICAL EXPERIMENTS
Apparatus and process for volumetrically dispensing reagent quantities of volatile chemicals for small batch reactions
[NASA-CASE-NPO-10070] c15 N71-27372
CROSS CORRELATION
Surface roughness measuring system
[NASA-CASE-NPO-13862-1] c32 N77-17325
CROSSED FIELDS
Crossed-field plasma accelerator for laboratory simulation of atmospheric reentry conditions
[NASA-CASE-XLA-00675] c25 N70-33267
Direct conversion of thermal energy into electrical energy using crossed electric and magnetic fields
[NASA-CASE-XLE-00212] c03 N70-34134
Crossed field MHD plasma generator-accelerator
[NASA-CASE-XLA-03374] c25 N71-15562
CROSSLINKING
New trifunctional alcohol derived from trimer acid and novel method of preparation
[NASA-CASE-NPO-10714] c06 N69-31244
Catalytic trimerization of aromatic nitriles and triaryl-s-triazine ring cross-linked high temperature resistant polymers and copolymers made thereby
[NASA-CASE-LEW-12053-1] c27 N74-34579
Polymeric foams from cross-linkable poly-N-arylenebenzimidazoles
[NASA-CASE-ARC-11008-1] c27 N76-28421

CRUCIBLES
Evaporating crucible of tantalum-tungsten foil, nickel alumina bonding agent, and ceramic coating
[NASA-CASE-XLA-03105] c15 N69-27483
CRUDE OIL
Decontamination of petroleum products with honey
[NASA-CASE-XNP-03835] c06 N71-23499
CRYOGENIC EQUIPMENT
Gas balancing, cryogenic refrigeration apparatus with Joule-Thomson valve assembly
[NASA-CASE-NPO-10309] c15 N69-23190
Low thermal loss piping arrangement for moving cryogenic media through double chamber structure
[NASA-CASE-XNP-08882] c15 N69-39935
Method and apparatus for removing plastic insulation from wire using cryogenic equipment
[NASA-CASE-MFS-10340] c15 N71-17628
Dual solid cryogens for spacecraft refrigeration insuring low temperature cooling for extended periods
[NASA-CASE-GSC-10188-1] c23 N71-24725
Reliability of automatic refilling valving device for cryogenic liquid systems
[NASA-CASE-NPO-11177] c15 N72-17453
Dual stage check valve for cryogenic supply systems used in space flight environmental control system
[NASA-CASE-MSC-13587-1] c15 N73-30459
Heat operated cryogenic electrical generator
[NASA-CASE-NPO-13303-1] c20 N75-24837
Insulation for piping
[NASA-CASE-MSC-19523-1] c31 N76-16245
Cryostat system for temperatures on the order of 2 deg K or less
[NASA-CASE-NPO-13459-1] c31 N77-10229
Multistation refrigeration system
[NASA-CASE-NPO-13839-1] c31 N77-15219
Device for tensioning test specimens within an hermetically sealed chamber
[NASA-CASE-MFS-23281-1] c35 N77-22450
System for and method of freezing biological tissue
[NASA-CASE-GSC-12173-1] c52 N77-27693
CRYOGENIC FLUID STORAGE
Apparatus for cryogenic liquid storage with heat transfer reduction and for liquid transfer at zero gravity conditions
[NASA-CASE-XLE-00345] c15 N70-38020
Cryogenic storage system for gases onboard spacecraft
[NASA-CASE-XMS-04390] c31 N70-41871
Carbon dioxide purge system to prevent condensation in spaces between cryogenic fuel tanks and hypersonic vehicle skin
[NASA-CASE-XLA-01967] c31 N70-42015
Fabrication of filament wound propellant tank for cryogenic storage
[NASA-CASE-XLE-03803-2] c15 N71-17651
Prefabricated multilayered self-evacuating insulation panels using gas with low vapor pressure at cryogenic temperatures for application to storage of cryogens
[NASA-CASE-XLE-04222] c23 N71-22881
Multilayer insulation panels for cryogenic liquid containers
[NASA-CASE-MFS-14023] c33 N71-25351
Development of thermal insulation material for insulating liquid hydrogen tanks in spacecraft
[NASA-CASE-XMF-05046] c33 N71-28892
Heater-mixer for stored fluids
[NASA-CASE-ARC-10442-1] c35 N74-15093
CRYOGENIC FLUIDS
Cryogenic flux-gated magnetometer using superconductors
[NASA-CASE-XAC-02407] c14 N69-27423
Fuel tank pressure-relief device for venting cryogenic liquid vapors through tubes with porous plug
[NASA-CASE-XLE-00288] c15 N70-34247
Conical valve plug for use with reactive cryogenic fluids
[NASA-CASE-XLE-00715] c15 N70-34859
Two component valve assembly for cryogenic liquid transfer regulation
[NASA-CASE-XLE-00397] c15 N70-36492
Measuring density of single and two-phase cryogenic fluids in rocket fuel tanks
[NASA-CASE-XLE-00688] c14 N70-41330
Leakproof soft metal seal for use in very high vacuum systems operating at cryogenic temperatures
[NASA-CASE-XGS-02441] c15 N70-41629
High pressure liquid flow sight assembly for wide temperature range applications including cryogenic fluids
[NASA-CASE-XLE-02998] c14 N70-42074
Automatic thermal switch for improving efficiency of cooling gases below 40 K
[NASA-CASE-XNP-03796] c23 N71-15467
Describing apparatus for separating gas from cryogenic liquid under zero gravity and for venting gas from fuel tank
[NASA-CASE-XLE-00586] c15 N71-15968
Development of apparatus for measuring thermal conductivity
[NASA-CASE-XGS-01052] c14 N71-15992
Method and apparatus for producing fine particles in cryogenic liquid bath for gelled rocket propellants
[NASA-CASE-NPO-10250] c23 N71-16212
Superconducting alternator design with cryogenic fluid for cooling windings below critical temperature
[NASA-CASE-XLE-02823] c09 N71-23443
Flow angle sensor and remote readout system for use with cryogenic fluids
[NASA-CASE-XLE-04503] c14 N71-24864
Design and development of device to prevent geysering during convective circulation of cryogenic fluids
[NASA-CASE-KSC-10615] c15 N73-12486
Magnetocaloric pump --- for cryogenic fluids
[NASA-CASE-LEW-11672-1] c37 N74-27904
Cryogenic liquid sensor
[NASA-CASE-NPO-10619-1] c35 N77-21393
CRYOGENIC GYROSCOPES
Cryogenic gyroscope housing --- with annular disks for gas spin-up
[NASA-CASE-MFS-21136-1] c35 N74-18323
CRYOGENIC MAGNETS
Improved alternator with windings of superconducting materials acting as permanent magnet
[NASA-CASE-XLE-02824] c03 N69-39890
CRYOGENIC ROCKET PROPELLANTS
Quick-release coupling for fueling rocket vehicles with cryogenic propellants
[NASA-CASE-XKS-01985] c15 N71-10782
Hot-wire liquid level detector for cryogenic propellants
[NASA-CASE-XLE-00454] c23 N71-17802
Automatically reciprocating, high pressure pump for use in spacecraft cryogenic propellants
[NASA-CASE-XNP-04731] c15 N71-24042
CRYOGENIC STORAGE
Light weight plastic foam thermal insulation for cryogenic storage
[NASA-CASE-XLE-02647] c18 N71-23658
Development of foam insulation for filament wound cryogenic storage tank
[NASA-CASE-XLE-03803] c15 N71-23816
CRYOGENICS
High strength aluminum casting alloy for cryogenic applications in aerospace engineering
[NASA-CASE-XMF-02786] c17 N71-20743
Portable cryogenic cooling system design including turbine pump, cooling chamber, and atomizer
[NASA-CASE-NPO-10467] c23 N71-26654
CRYOLITE
Ultraviolet filter of thorium fluoride and cryolite on quartz base
[NASA-CASE-XNP-02340] c23 N69-24332
CRYOSTATS
Cryostat for flexure fatigue testing of composite materials
[NASA-CASE-XMF-02964] c14 N71-17659
Cryostat for use with horizontal fatigue testing machines at low temperatures
[NASA-CASE-XMF-10968] c14 N71-24234
Heater-mixer for stored fluids
[NASA-CASE-ARC-10442-1] c35 N74-15093
Cryostat system for temperatures on the order of 2 deg K or less
[NASA-CASE-NPO-13459-1] c31 N77-10229
CRYSTAL FILTERS
Infrared tunable dye laser with nonlinear

wavelength mixing crystal in optical cavity
[NASA-CASE-ARC-10463-1] c09 N73-32111
CRYSTAL GROWTH
Device for producing high purity silicon carbide on carbon base by hydrogen reduction of silicon tetrachloride
[NASA-CASE-XLA-02057] c26 N70-40015
Electrodeposition method for producing crystalline material from dense gaseous medium
[NASA-CASE-NPO-10440] c15 N72-21466
Growth of gallium nitride crystals
[NASA-CASE-LAR-11302-1] c25 N75-13054
Vapor phase growth of groups 3-5 compounds by hydrogen chloride transport of the elements
[NASA-CASE-LAR-11144-1] c25 N75-26043
Process for fabricating SiC semiconductor devices
[NASA-CASE-LEW-12094-1] c76 N76-25049
Production of crystals from molten solutions
[NASA-CASE-NPO-13969-2] c76 N77-30984
Method of crystallization --- in gravity-free environments
[NASA-CASE-MFS-23001-1] c76 N77-32919
CRYSTAL LATTICES
An improved method and apparatus for use in examining the lattice of a semiconductor wafer by X-ray diffraction
[NASA-CASE-MFS-23315-1] c76 N76-32029
CRYSTAL OSCILLATORS
Describing crystal oscillator instrument for detecting condensible gas contaminants in vacuum apparatus
[NASA-CASE-NPO-10144] c14 N71-17701
Passive intrusion detection system
[NASA-CASE-NPO-13804-1] c35 N77-19390
CRYSTAL RECTIFIERS
Turn on current transient limiter for controlling peak current flow in high capacity load
[NASA-CASE-GSC-10413] c10 N71-26531
CRYSTAL STRUCTURE
Soft X-ray laser using crystal channels as distributed feedback cavities --- zeolites
[NASA-CASE-NPO-13532-1] c36 N75-15973
Method of growing composites of the type exhibiting the Soret effect --- improved structure of eutectic alloy crystals
[NASA-CASE-MFS-22926-1] c24 N77-27187
CRYSTALLIZATION
Production of crystals from molten solutions
[NASA-CASE-NPO-13969-2] c76 N77-30984
Method of crystallization --- in gravity-free environments
[NASA-CASE-MFS-23001-1] c76 N77-32919
CRYSTALS
Brushless dc tachometer design with Hall effect crystals and output voltage magnitude proportional to rotor speed
[NASA-CASE-MFS-20388] c09 N71-24904
CULTURE TECHNIQUES
Development of variable angle device for positioning test tubes to permit optimum drying of culture medium
[NASA-CASE-LAR-10507-1] c11 N72-25284
Automatic inoculating apparatus --- includes movable carraige, drive motor, and swabbing motor
[NASA-CASE-LAR-11074-1] c51 N75-13502
Automatic microbial transfer device
[NASA-CASE-LAR-11354-1] c35 N75-27330
CURING
Reaction cured glass and glass coatings
[NASA-CASE-ARC-11051-1] c27 N77-10201
CURRENT CONVERTERS (AC TO DC)
Method and apparatus for automatic load sharing among paralleled converters
[NASA-CASE-NPO-13832-1] c33 N76-26393
CURRENT DENSITY
Solid state switching circuit design to increase current capacity of low rated relay contacts
[NASA-CASE-XNP-09228] c09 N69-27500
Technique and equipment for sputtering using apertured electrode and pulsed substrate bias
[NASA-CASE-LEW-10920-1] c17 N73-24569
CURRENT DISTRIBUTION
Distribution of currents to circuits using electrical adaptor
[NASA-CASE-XLA-01288] c09 N69-21470
Electron bombardment ion rocket engine with improved propellant introduction system
[NASA-CASE-XLE-02066] c28 N71-15661
Reversible current directing circuitry for reversible motor control
[NASA-CASE-XLA-09371] c10 N71-18724
Electric circuit for reversing direction of current flow
[NASA-CASE-XNP-00952] c10 N71-23271
Load insensitive electrical device --- power converters for supplying direct current at one voltage from a source at another voltage
[NASA-CASE-XER-11046-2] c33 N74-22864
Method and apparatus for automatic load sharing among paralleled converters
[NASA-CASE-NPO-13832-1] c33 N76-26393
Overload protection system for power inverter
[NASA-CASE-NPO-13872-1] c33 N77-17359
CURRENT REGULATORS
Apparatus for ballasting high frequency transistors
[NASA-CASE-XGS-05003] c09 N69-24318
Automatic baseline stabilization for ionization detector used in gas chromatograph
[NASA-CASE-XNP-03128] c10 N70-41991
Describing magnetic core current switching device for steering bipolar current pulses to memory units
[NASA-CASE-NPO-10201] c08 N71-18694
Circuit design for determining amount of photomultiplier tube light detection utilizing variable current source and dark current signals of opposite polarity
[NASA-CASE-XMS-03478] c14 N71-21040
Switching series regulator with gating control network
[NASA-CASE-XMS-09352] c09 N71-23316
Magnetic current regulator for saturable core transformer
[NASA-CASE-ERC-10075] c09 N71-24800
Automatic power supply circuit design for driving inductive loads and minimizing power consumption including solenoid example
[NASA-CASE-NPO-10716] c09 N71-24892
Turn on current transient limiter for controlling peak current flow in high capacity load
[NASA-CASE-GSC-10413] c10 N71-26531
Current regulating voltage divider design with load current shunting
[NASA-CASE-MFS-20935] c09 N71-34212
Circuit for monitoring power supply by ripple current indication
[NASA-CASE-KSC-10162] c09 N72-11225
Inrush current limiter
[NASA-CASE-GSC-11789-1] c33 N77-14333
Dual mode solid state power switch
[NASA-CASE-MFS-22880-2] c33 N77-31407
Circuit for automatic load sharing in parallel converter modules
[NASA-CASE-NPO-14056-1] c33 N77-32402
CURVATURE
Apparatus and method for spin forming tubular elbows with high strength, uniform thickness, and close tolerances
[NASA-CASE-XNP-01083] c15 N71-22723
Two degree inverted flexure from single block of material
[NASA-CASE-ARC-10345-1] c15 N73-12488
CURVE FITTING
Simulating voltage-current characteristic curves of solar cell panel with different operational parameters
[NASA-CASE-XMS-01554] c10 N71-10578
CURVED PANELS
Fabrication of curved reflector segments for solar mirror
[NASA-CASE-XLE-08917] c15 N71-15597
Method and apparatus for bowing of instrument panels to improve radio frequency shielded enclosure
[NASA-CASE-XNP-09422] c07 N71-19436
Space erectable rollup solar array of arcuate solar panels furled on tapered drum for spacecraft storage during launch
[NASA-CASE-NPO-10188] c03 N71-20273
Forming mold for polishing and machining curved solar magnesium reflector with reinforcing ribs
[NASA-CASE-XLE-08917-2] c15 N71-24836
CUSHIONS
An improved vehicular impact absorption system

[NASA-CASE-NPO-14014-1] c37 N77-31501
A seat cushion to provide realistic acceleration cues for aircraft simulator pilots
[NASA-CASE-LAR-12149-1] c54 N77-31787
CUTTERS
Description of device for aligning stacked sheets of paper for repetitive cutting
[NASA-CASE-MSS-04178] c15 N71-22798
Portable cutting machine for piping weld preparation
[NASA-CASE-MFS-07953] c15 N71-26134
Precision surface cutter for screen circuit negatives and other microcircuits
[NASA-CASE-XLA-09843] c15 N72-27485
Insert facing tool --- manually operated cutting tool for forming studs in honeycomb material
[NASA-CASE-MFS-21485-1] c37 N74-25968
Grinding arrangement for ball nose milling cutters
[NASA-CASE-LAR-10450-1] c37 N74-27905
Ophthalmic liquifaction pump
[NASA-CASE-LEW-12051-1] c52 N75-33640
CUTTING
Ellipsograph for describing and cutting ellipses with minimal axial dimensions
[NASA-CASE-XLA-03102] c14 N71-21079
Precision alinement apparatus for cutting a workpiece
[NASA-CASE-LAR-11658-1] c37 N77-14478
CYCLES
Pneumatic system for cyclic control of fluid flow in pneumatic device
[NASA-CASE-XMS-04843] c03 N69-21469
Multistage feedback shift register with states decomposable into cycles of equal length
[NASA-CASE-NPO-11082] c08 N72-22167
CYCLIC ACCELERATORS
Cyclical bi-directional rotary actuator
[NASA-CASE-GSC-11883-1] c37 N77-19458
CYCLIC HYDROCARBONS
Para-benzoquincne dioxime and concentrated mineral acid processed to yield intumescent or fire resistant, heat insulating materials
[NASA-CASE-ARC-10304-1] c18 N73-26572
CYCLIC LOADS
Automatic controlled thermal fatigue testing apparatus
[NASA-CASE-XLA-02059] c33 N71-24276
Development of device for simulating cyclic thermal loading of flexible materials by application of mechanical stresses and deformations
[NASA-CASE-LAR-10270-1] c32 N72-25877
Material testing system with load sensor for applying and measuring cyclic tensile and compressive loads to test specimens
[NASA-CASE-MFS-20673] c14 N73-20476
CYCLOTRON RADIATION
Apparatus for producing high purity I-123 from Xe-123 by bombarding tellurium target with cyclotron beam
[NASA-CASE-LEW-10518-2] c24 N72-28714
CYLINDRICAL ANTENNAS
Variable beamwidth antenna --- with multiple beam, variable feed system
[NASA-CASE-GSC-11862-1] c32 N76-18295
CYLINDRICAL BODIES
Apparatus for scanning the surface of a cylindrical body
[NASA-CASE-NPO-11861-1] c36 N74-20009
Adjustable securing base
[NASA-CASE-MSC-19666-1] c37 N76-31529

D

DAMPING
Dynamic precession damping of spin-stabilized vehicles by using rate gyroscope and angular accelerometer
[NASA-CASE-XLA-01989] c21 N70-34295
Slosh damping method for liquid rocket propellant tanks
[NASA-CASE-XMF-00658] c12 N70-38997
Utilization of momentum devices for forming attitude control and damping system for spacecraft
[NASA-CASE-XLA-02551] c21 N71-21708
Three stage motion restraining mechanism for restraining and damping three dimensional vibrational movement of gimballed package during launch of spacecraft
[NASA-CASE-GSC-10306-1] c15 N71-24694
Nutation damper for use on spinning body
[NASA-CASE-GSC-11205-1] c15 N73-25513
Development of electrical circuit for suppressing oscillations across inductor operating in resonant mode
[NASA-CASE-ERC-10403-1] c10 N73-26228
DATA ACQUISITION
Conversion system for increasing resolution of analog to digital converters
[NASA-CASE-XAC-00404] c08 N70-40125
Development of telemetry system for position location and data acquisition
[NASA-CASE-GSC-10083-1] c30 N71-16090
Data acquisition system for converting displayed analog signal to digital values
[NASA-CASE-NPO-10344] c10 N71-26544
Data acquisition and processing system with buffer storage and timing device for magnetic tape recording of PCM data and timing information
[NASA-CASE-NPO-12107] c08 N71-27255
Simultaneous acquisition of tracking data from two stations
[NASA-CASE-NPO-13292-1] c32 N75-15854
Contour detector and data acquisition system for the left ventricular outline
[NASA-CASE-ARC-10985-1] c52 N77-17701
DATA COLLECTION PLATFORMS
Remote platform power conserving system
[NASA-CASE-GSC-11182-1] c15 N75-13007
DATA COMPRESSION
Minimum time delay unit for conventional time multiplexed data compression channels
[NASA-CASE-XNP-08832] c08 N71-12506
Data compression processor for monitoring analog signals by sampling procedure
[NASA-CASE-NPO-10068] c08 N71-19288
Wide range analog data compression system
[NASA-CASE-XGS-02612] c08 N71-19435
Apparatus with summing network for compression of analog data by decreasing slope threshold sampling
[NASA-CASE-NPO-10769] c08 N72-11171
Data reduction and transmission system for IV PCM data
[NASA-CASE-NPO-11243] c07 N72-20154
Gated compressor, distortionless signal limiter
[NASA-CASE-NPO-11820-1] c32 N74-19788
Space communication system for compressed data with a concatenated Reed-Solomon-Viterbi coding channel
[NASA-CASE-NPO-13545-1] c32 N77-12240
Sampling video compression system
[NASA-CASE-ARC-10984-1] c32 N77-24328
DATA CONVERTERS
Logarithmic converter for compressing 19-digit binary input number to 8-digit output
[NASA-CASE-XLA-00471] c08 N70-34778
Mechanical coordinate converter for use with spacecraft tracking antennas
[NASA-CASE-XNP-00614] c14 N70-36907
Analog signal to discrete time converter
[NASA-CASE-ERC-10048] c09 N72-25251
Digital converter for scaling binary number to binary coded decimal number of higher multiple
[NASA-CASE-KSC-10595] c08 N73-12176
Image data rate converter having a drum with a fixed head and a rotatable head
[NASA-CASE-NPO-11659-1] c35 N74-11283
Electronic analog divider
[NASA-CASE-LEW-11881-1] c33 N77-17354
DATA LINKS
Characteristics of two channel telemetry system with two data rate channels for high and low data rate communication
[NASA-CASE-NPO-11572] c07 N73-16121
Automatic accounting system for transfer of data from terminals to computer
[NASA-CASE-NPO-11456] c08 N73-26176
Multi-computer multiple data path hardware exchange system
[NASA-CASE-NPO-13422-1] c60 N76-14818
Apparatus for simulating optical transmission links
[NASA-CASE-GSC-11877-1] c74 N76-18913
DATA MANAGEMENT
Selective data segment monitoring system ---

using shift registers
[NASA-CASE-ARC-10899-1] c60 N77-19760
DATA PROCESSING
Data processing and display system for terminal guidance of X-15 aircraft
[NASA-CASE-XFR-00756] c02 N71-13421
Encoders designed to generate comma free biorthogonal Reed-Muller type code comprising conversion of 64 6-bit words into 64 32-bit data for communication purposes
[NASA-CASE-NPO-10595] c10 N71-25917
Data acquisition and processing system with buffer storage and timing device for magnetic tape recording of PCM data and timing information
[NASA-CASE-NPO-12107] c08 N71-27255
Digital data handling circuits for pulse amplifiers
[NASA-CASE-XNP-01068] c10 N71-28739
Synchronized digital communication system
[NASA-CASE-XNP-03623] c09 N73-28084
Image data rate converter having a drum with a fixed head and a rotatable head
[NASA-CASE-NPO-11659-1] c35 N74-11283
An interactive color display for multispectral imagery using correlation clustering
[NASA-CASE-MSC-16253-1] c43 N77-31583
Charge-coupled device data processor for an airborne imaging radar system
[NASA-CASE-NPO-13587-1] c32 N77-32342
DATA PROCESSING EQUIPMENT
Data processor having multiple sections activated at different times by selective power coupling to sections
[NASA-CASE-XGS-04767] c08 N71-12494
Development of demodulation system for removing amplitude modulation from two quadrature displaced data bearing signals
[NASA-CASE-XAC-04030] c10 N71-19472
Development and characteristics of rate augmented digital to analog converter for computed time-dependent data
[NASA-CASE-XLA-07828] c08 N71-27057
Data processor with plural register stages for selectively interconnecting with each other to effect multiplicity of operations
[NASA-CASE-GSC-10186] c08 N71-33110
Development and characteristics of telemetry system using computer-accessed circuits and remotely controlled from ground station
[NASA-CASE-NPO-11358] c07 N72-25172
Development and characteristics of data decoder to process convolution encoded information
[NASA-CASE-NPO-11371] c08 N73-12177
Characteristics of digital data processor using pulse from clock source to derive binary singles to show state of various indicators in processor
[NASA-CASE-GSC-10975-1] c08 N73-13187
Automatic accounting system for transfer of data from terminals to computer
[NASA-CASE-NPO-11456] c08 N73-26176
Space communication system for compressed data with a concatenated Reed-Solomon-Viterbi coding channel
[NASA-CASE-NPO-13545-1] c32 N77-12240
DATA RECORDERS
Description of system for recording and reading out data related to distribution of occurrence of plurality of events
[NASA-CASE-XNP-04067] c08 N71-22707
Design and characteristics of recording system for selective reprocessing and filtering of data to obtain optimum signal to noise ratios
[NASA-CASE-ERC-10112] c07 N72-21119
Recorder/processor apparatus --- for optical data processing
[NASA-CASE-GSC-11553-1] c35 N74-15831
DATA RECORDING
System for recording and reproducing PCM data from data stored on magnetic tape
[NASA-CASE-XGS-01021] c08 N71-21042
Description of system for recording and reading out data related to distribution of occurrence of plurality of events
[NASA-CASE-XNP-04067] c08 N71-22707
Development of data storage system for storing digital data in high density format on magnetic tape
[NASA-CASE-XNP-02778] c08 N71-22710
Transient video signal tape recorder with expanded playback
[NASA-CASE-ARC-10003-1] c09 N71-25866
Apparatus for on-film optical recording of camera lens aperture and focus setting
[NASA-CASE-MSC-12363-1] c14 N73-26431
Image data rate converter having a drum with a fixed head and a rotatable head
[NASA-CASE-NPO-11659-1] c35 N74-11283
Holography utilizing surface plasmon resonances
[NASA-CASE-MFS-22040-1] c35 N74-26946
DATA REDUCTION
System for storing histogram data in optimum number of elements
[NASA-CASE-XNP-09785] c08 N69-21928
Respiration analyzing method and apparatus for determining subjects oxygen consumption in aerospace environments
[NASA-CASE-XFR-08403] c05 N71-11202
Minimum time delay unit for conventional time multiplexed data compression channels
[NASA-CASE-XNP-08832] c08 N71-12506
Data compression processor for monitoring analog signals by sampling procedure
[NASA-CASE-NPO-10068] c08 N71-19288
Wide range analog data compression system
[NASA-CASE-XGS-02612] c08 N71-19435
Description of system for recording and reading out data related to distribution of occurrence of plurality of events
[NASA-CASE-XNP-04067] c08 N71-22707
Apparatus with summing network for compression of analog data by decreasing slope threshold sampling
[NASA-CASE-NPO-10769] c08 N72-11171
Data reduction and transmission system for TV PCM data
[NASA-CASE-NPO-11243] c07 N72-20154
Data compression using decreasing slope threshold test and digital techniques
[NASA-CASE-NPO-11630] c08 N72-33172
DATA RETRIEVAL
Magnetic matrix memory system for nondestructive reading of information contained in matrix
[NASA-CASE-XMF-05835] c08 N71-12504
Asynchronous, multiplexing, single line transmission and recovery data system --- for satellite use
[NASA-CASE-NPO-13321-1] c32 N75-26195
DATA SAMPLING
Monitoring circuit design for sampling circuit control and reduction of time-bandwidth in video communication systems
[NASA-CASE-XNP-02791] c07 N71-23026
Sampling circuit for signal processing in multiplex transmission by Fourier analysis
[NASA-CASE-NPO-10388] c07 N71-24622
Video signal processing system for sampling video brightness levels
[NASA-CASE-NPO-10140] c07 N71-24742
Apparatus with summing network for compression of analog data by decreasing slope threshold sampling
[NASA-CASE-NPO-10769] c08 N72-11171
Sampling video compression system
[NASA-CASE-ARC-10984-1] c32 N77-24328
DATA SMOOTHING
Variable time constant, wide frequency range smoothing network for noise removal from pulse chains
[NASA-CASE-XGS-01983] c10 N70-41964
DATA STORAGE
Data handling based on source significance, storage availability, and data received from source
[NASA-CASE-XNP-04162-1] c08 N70-34675
Magnetic matrix memory system for nondestructive reading of information contained in matrix
[NASA-CASE-XMF-05835] c08 N71-12504
Tape guidance system for multichannel digital recording system
[NASA-CASE-XNP-09453] c08 N71-19420
Event recorder with constant speed motor which rotates recording disk
[NASA-CASE-XLA-01832] c14 N71-21006
System for recording and reproducing PCM data from data stored on magnetic tape
[NASA-CASE-XGS-01021] c08 N71-21042

Development of data storage system for storing digital data in high density format on magnetic tape
[NASA-CASE-XNP-02778] c08 N71-22710
Multiple pattern holographic information storage and readout system
[NASA-CASE-ERC-10151] c16 N71-29131
Momentum wheel design for spacecraft attitude control and magnetic drum and head system for data storage
[NASA-CASE-NPO-11481] c21 N73-13644
Data storage, image tube type
[NASA-CASE-MSC-14053-1] c60 N74-12888

DATA SYSTEMS
Data handling based on source significance, storage availability, and data received from source
[NASA-CASE-XNP-04162-1] c08 N70-34675
Development and characteristics of rate augmented digital to analog converter for computed time-dependent data
[NASA-CASE-XLA-07828] c08 N71-27057
Method and apparatus for decoding compatible convolutional codes
[NASA-CASE-MSC-14070-1] c32 N74-32598

DATA TRANSMISSION
Telemetry data unit to form multibit words for use between demodulator and computer
[NASA-CASE-XNP-09225] c09 N69-24333
Phase shift data transmission system with pseudo-noise synchronization code modulated with digital data into single channel for spacecraft communication
[NASA-CASE-XNP-00911] c08 N70-41961
Minimum time delay unit for conventional time multiplexed data compression channels
[NASA-CASE-XNP-08832] c08 N71-12506
Data compression processor for monitoring analog signals by sampling procedure
[NASA-CASE-NPO-10068] c08 N71-19288
Wide range analog data compression system
[NASA-CASE-XGS-02612] c08 N71-19435
Plural channel data transmission system with quadrature modulation and complementary demodulation
[NASA-CASE-XAC-06302] c08 N71-19763
Monitoring circuit design for sampling circuit control and reduction of time-bandwidth in video communication systems
[NASA-CASE-XNP-02791] c07 N71-23026
Frequency shift keying apparatus for use with pulse code modulation data transmission system
[NASA-CASE-XGS-01537] c07 N71-23405
Binary data decoding device for use at receiving end of communication channel
[NASA-CASE-NPO-10118] c07 N71-24741
Data reduction and transmission system for TV PCM data
[NASA-CASE-NPO-11243] c07 N72-20154
Characteristics of two channel telemetry system with two data rate channels for high and low data rate communication
[NASA-CASE-NPO-11572] c07 N73-16121
Telemetry and transmission system with programmed sampling and multiplexing
[NASA-CASE-GSC-11388-1] c07 N73-24187
Automatic accounting system for transfer of data from terminals to computer
[NASA-CASE-NPO-11456] c08 N73-26176
System for generating timing and control signals
[NASA-CASE-NPO-13125-1] c33 N75-19519
Sampling video compression system
[NASA-CASE-ARC-10984-1] c32 N77-24328
Pseudo noise code and data transmission method and apparatus
[NASA-CASE-GSC-12017-1] c32 N77-30308

DEBRIS
Counter pumping debris excluder and separator
[NASA-CASE-LEW-11855-1] c37 N76-20487

DECAY RATES
Solar sensor with coarse and fine sensing elements for matching pre-irradiated cells on degradation rates
[NASA-CASE-XLA-01584] c14 N71-23269

DECELERATION
Assembly for opening flight capsule stabilizing and decelerating flaps with reference to capsule recovery
[NASA-CASE-XMP-00641] c31 N70-36410
Device for use in descending spacecraft as altitude sensor for actuating deceleration retrorockets
[NASA-CASE-XMS-03792] c14 N70-41812
Development and characteristics of hot air balloon deceleration and recovery system
[NASA-CASE-XLA-06824-2] c02 N71-11037
Zero gravity apparatus utilizing pneumatic decelerating means to create payload subjected to zero gravity conditions by dropping its height
[NASA-CASE-XMP-06515] c14 N71-23227

DECIMALS
Digital converter for scaling binary number to binary coded decimal number of higher multiple
[NASA-CASE-KSC-10595] c08 N73-12176

DECISION MAKING
Method and apparatus for decoding compatible convolutional codes
[NASA-CASE-MSC-14070-1] c32 N74-32598

DECODERS
Serial digital decoder design with square circuit matrix and serial memory storage units
[NASA-CASE-NPO-10150] c08 N71-24650
Binary to decimal decoder logic circuit design with feedback control and display device
[NASA-CASE-XKS-06167] c08 N71-24890
Design and development of encoder/decoder system to generate binary code which is function of outputs of plurality of bistable elements
[NASA-CASE-NPO-10342] c10 N71-33407
Compact-bi-phase pulse coded modulation decoder
[NASA-CASE-KSC-10834-1] c33 N76-14371
Low distortion receiver for bi-level baseband PCM waveforms
[NASA-CASE-MSC-14557-1] c32 N76-16249
Three-phase full wave dc motor decoder
[NASA-CASE-GSC-11824-1] c33 N77-26386

DECODING
Binary data decoding device for use at receiving end of communication channel
[NASA-CASE-NPO-10118] c07 N71-24741
Development and characteristics of data decoder to process convolution encoded information
[NASA-CASE-NPO-11371] c08 N73-12177
Method and apparatus for decoding compatible convolutional codes
[NASA-CASE-MSC-14070-1] c32 N74-32598
Differential pulse code modulation
[NASA-CASE-MSC-12506-1] c32 N77-12239

DECONTAMINATION
Decontamination of petroleum products with honey
[NASA-CASE-XNP-03835] c06 N71-23499
Heat exchanger and decontamination system for multistage refrigeration unit
[NASA-CASE-NPO-10634] c23 N72-25619
Plasma cleaning device
[NASA-CASE-MFS-22906-1] c75 N76-24001

DEEP SPACE NETWORK
Low phase noise frequency divider for use with deep space network communication system
[NASA-CASE-NPO-11569] c10 N73-26229

DEFECTS
Hybrid holographic non-destructuve test system --- optical and acoustical methods capable of detecting flaws in materials
[NASA-CASE-MFS-23114-1] c35 N76-24529

DEFLECTION
Bipropellant injector with pair of concave deflector plates
[NASA-CASE-XNP-09461] c28 N72-23809
Horizontally mounted solar collector
[NASA-CASE-MFS-23349-1] c44 N77-30613

DEFLECTORS
Deflector for preventing objects from entering nacelle inlets of jet aircraft
[NASA-CASE-XLE-00388] c28 N70-34788
Aircraft wheel spray drag alleviator for dual tandem landing gear
[NASA-CASE-XLA-01583] c02 N70-36825
Ion beam deflector system for electronic thrust vector control for ion propulsion yaw, pitch, and roll forces
[NASA-CASE-LEW-10689-1] c28 N71-26173
Exhaust flow deflector --- for ducted gas flow
[NASA-CASE-LAR-11570-1] c34 N76-18364

DEFOCUSING
Optical retrodirective modulator with focus spoiling reflector driven by modulation signal

[NASA-CASE-GSC-10062] c14 N71-15605
DEFORMATION
Deformation measuring apparatus with feedback control for arbitrarily shaped structures
[NASA-CASE-LAR-10098] c32 N71-26681
Development of device for simulating cyclic thermal loading of flexible materials by application of mechanical stresses and deformations
[NASA-CASE-LAR-10270-1] c32 N72-25877
Deformable bearing seat
[NASA-CASE-LEW-12527-1] c37 N77-32500
DEGREES OF FREEDOM
Attitude control training device for astronauts permitting friction-free movement with five degrees of freedom
[NASA-CASE-MSC-02977] c11 N71-10746
Tuned damped vibration absorber for mass vibrating in more than one degree of freedom for use with wind tunnel models
[NASA-CASE-LAR-10083-1] c15 N71-27006
Kinesthetic control simulator --- for pilot training
[NASA-CASE-LAR-10276-1] c09 N75-15662
DEHUMIDIFICATION
Condenser-separator for dehumidifying air utilizing sintered metal surface
[NASA-CASE-XLA-08645] c15 N69-21465
DEHYDRATED FOOD
Rice preparation process consisting of cooking, two freezing-thawing cycles, and then freeze drying
[NASA-CASE-MSC-13540-1] c05 N72-33096
DELAY CIRCUITS
Development of pulsed differential comparator circuit
[NASA-CASE-XLE-03804] c10 N71-19471
Pulse duration control device for driving slow response time loads in selected sequence including switching and delay circuits and magnetic storage
[NASA-CASE-XGS-04224] c10 N71-26418
Telemetry synchronizer
[NASA-CASE-GSC-11868-1] c17 N76-22245
DELAY LINES
Development and characteristics of solid state acoustic variable time delay line using direct current voltage and radio frequency pulses
[NASA-CASE-ERC-10032] c10 N71-25900
DELTA MODULATION
Multifunction audio digitizer --- producing direct delta and pulse code modulation
[NASA-CASE-MSC-13655-1] c35 N74-17885
DELTA WINGS
Delta winged, manned reentry vehicle capable of horizontal glide landing at low speeds
[NASA-CASE-XLA-00241] c31 N70-37986
DEMAGNETIZATION
Tumbling motion system for object demagnetization
[NASA-CASE-XGS-02437] c15 N69-21472
DEMODULATION
Plural channel data transmission system with quadrature modulation and complementary demodulation
[NASA-CASE-XAC-06302] c08 N71-19763
Restoration and improvement of demodulated facsimile video signals
[NASA-CASE-GSC-10185-1] c07 N72-12081
DEMODULATORS
Telemetry data unit to form multibit words for use between demodulator and computer
[NASA-CASE-XNP-09225] c09 N69-24333
Frequency shift keyed demodulator - circuit diagrams
[NASA-CASE-XGS-02889] c07 N71-11282
Demodulator for simultaneous demodulation of two modulating ac signal carriers close in frequency
[NASA-CASE-XMF-01160] c07 N71-11298
Development of demodulation system for removing amplitude modulation from two quadrature displaced data bearing signals
[NASA-CASE-XAC-04030] c10 N71-19472
Calibrator for measuring and modulating or demodulating laser outputs
[NASA-CASE-XLA-03410] c16 N71-25914
Threshold extension device for improving operating performance of frequency modulation demodulators by eliminating click-type noise impulses
[NASA-CASE-MSC-12165-1] c07 N71-33696
Full wave modulator-demodulator amplifier apparatus --- for generating rectified output signal
[NASA-CASE-FRC-10072-1] c33 N74-14939
Unbalanced quadriphase demodulator
[NASA-CASE-MSC-14840-1] c32 N77-24331
Digital demodulator-correlator --- for rangefinding
[NASA-CASE-NPO-13982-1] c32 N77-24341
DENSITOMETERS
Capacitor for measuring density of compressible fluid in liquid, gas, or liquid and gas phases
[NASA-CASE-XLE-00143] c14 N70-36618
Measuring density of single and two-phase cryogenic fluids in rocket fuel tanks
[NASA-CASE-XLE-00688] c14 N70-41330
Ultrasonic bone densitometer
[NASA-CASE-MFS-20994-1] c35 N75-12271
DENSITY DISTRIBUTION
Increasing available power per unit area in ion rocket engine by increasing beam density
[NASA-CASE-XLE-00519] c28 N70-41576
Varying density composite structure
[NASA-CASE-LAR-11181-1] c39 N75-31479
Method and apparatus for compensating reflection losses in a path length modulated absorption-absorption trace gas detector --- for determining density of gas
[NASA-CASE-ARC-10631-1] c74 N76-20958
DENSITY MEASUREMENT
Capacitor for measuring density of compressible fluid in liquid, gas, or liquid and gas phases
[NASA-CASE-XLE-00143] c14 N70-36618
Measuring density of single and two-phase cryogenic fluids in rocket fuel tanks
[NASA-CASE-XLE-00688] c14 N70-41330
Determining particle density using known material Hugeniot curves
[NASA-CASE-LAR-11059-1] c76 N75-12810
DENTISTRY
Process for preparing calcium phosphate salts for tooth repair
[NASA-CASE-ERC-10338] c04 N72-33072
DEPLOYMENT
Extendable, self-deploying boom apparatus
[NASA-CASE-GSC-10566-1] c15 N72-18477
Deployable cantilever support for deploying solar cell arrays aboard spacecraft and reducing transient loading
[NASA-CASE-NPO-10883] c31 N72-22874
DEPOSITION
Means and methods of depositing thin films on substrates
[NASA-CASE-XNP-00595] c15 N70-34967
Dual wavelength system for monitoring film deposition
[NASA-CASE-MFS-20675] c26 N73-26751
Production of pure metals
[NASA-CASE-LEW-10906-1] c25 N74-30502
DESALINIZATION
Water purification process
[NASA-CASE-ARC-10643-2] c51 N75-13506
DESCENT
Emergency descent device
[NASA-CASE-MFS-23074-1] c54 N77-21844
DESIGN ANALYSIS
Airfoil shape for flight at subsonic speeds --- design analysis and aerodynamic characteristics of the GAW-1 airfoil
[NASA-CASE-LAR-10585-1] c02 N76-22154
Two dimensional wedge/translating shroud nozzle
[NASA-CASE-LAR-11919-1] c07 N76-22202
Snap-in compressible biomedical electrode
[NASA-CASE-MSC-14623-1] c52 N77-28717
DETECTION
Heated element sensor for fluid flow detection in thermal conductive conduit with adaptive means to determine flow rate and direction
[NASA-CASE-MSC-12084-1] c12 N71-17569
Fluid leakage detection system with automatic monitoring capability
[NASA-CASE-LAR-10323-1] c12 N71-17573
Metal detection system with electromagnetic transmitter with single coil and receiver with single coil
[NASA-CASE-ARC-10265-1] c10 N72-28240
System for detecting impact position of cosmic dust on detector surface

[NASA-CASE-GSC-11291-1] c25 N72-33696
Detection of bacteria in biological fluids and foods
[NASA-CASE-GSC-11533-1] c14 N73-13435
Short range laser obstacle detector --- for surface vehicles using laser diode array
[NASA-CASE-NPO-11856-1] c36 N74-15145
Vacuum leak detector
[NASA-CASE-LAR-11237-1] c35 N75-19612
Detection of microbial infection in blood and antibiotic determinations
[NASA-CASE-GSC-12045-1] c52 N77-18733

DETECTORS
Pressurized cell micrometeoroid detector
[NASA-CASE-XLA-00936] c14 N71-14996
Development of large area micrometeoroid impact detector panels
[NASA-CASE-XLA-05906] c31 N71-16221
Development of pulse-activated polarographic hydrogen detector
[NASA-CASE-XMF-06531] c14 N71-17575
Electro-optical detector for determining position of light source
[NASA-CASE-XNP-01059] c23 N71-21821
Method for locating leaks in hermetically sealed containers
[NASA-CASE-ERC-10045] c15 N71-24910
Precipitation detector and mechanism for stopping and restarting machinery at initiation and cessation of rain
[NASA-CASE-XLA-02619] c10 N71-26334
Hydrogen fire flink detector for high altitude rocket or ground installation
[NASA-CASE-MFS-15063] c14 N72-25412
Device for detection of combustion light preceding gaseous explosions
[NASA-CASE-LAR-10739-1] c14 N73-16484
Optical imaging system for increasing light absorption efficiency of imaging detector
[NASA-CASE-ARC-10194-1] c23 N73-20741
Cold cathode discharge tube with pressurized gas cell for meteoroid detection in space
[NASA-CASE-LAR-10483-1] c14 N73-32327
Deployable pressurized cell structure for a micrometeoroid detector
[NASA-CASE-LAR-10295-1] c35 N74-21062
Modulated hydrogen ion flame detector
[NASA-CASE-ARC-10322-1] c35 N76-18403

DETERGENTS
Anti-fog composition --- for prevention of fogging on surfaces such as space helmet visors and windshields
[NASA-CASE-MSC-13530-2] c23 N75-14834

DETONATION
Optically detonated explosive device
[NASA-CASE-NPO-11743-1] c28 N74-27425

DETONATION WAVES
Detonation reaction engine comprising outer housing enclosing pair of inner walls for continuous flow
[NASA-CASE-XMF-06926] c28 N71-22983

DEUTERIUM
Gas chromatographic method for analyzing hydrogen deuterium mixtures
[NASA-CASE-NPO-11322] c06 N72-25146
Deuterium pass through target --- neutron emitting target
[NASA-CASE-LEW-11866-1] c72 N76-15860

DIAGNOSIS
Apparatus for producing high purity I-123 --- for thyroid measurement
[NASA-CASE-LEW-10518-3] c31 N74-10476

DIAGRAMS
Phototransistor with base collector junction diode for integration into photo sensor arrays
[NASA-CASE-MFS-20407] c09 N73-19235

DIAMINES
Preparation of elastomeric diamine silazane polymers
[NASA-CASE-XMF-04133] c06 N71-20717
Synthesis of aromatic diamines and dialdehyde polymers using Schiff base
[NASA-CASE-XMF-03074] c06 N71-24740
Synthesis of siloxane containing epoxide and diamine polymers
[NASA-CASE-MFS-13994-2] c06 N72-25148
Stable polyimide synthesis from mixtures of monomeric diamines and polycarboxylic acid esters
[NASA-CASE-LEW-11325-1] c06 N73-27980

DIAMONDS
Exponential horn, copper plate, magnetic hammer, and anvil in apparatus for making diamonds
[NASA-CASE-MFS-20698] c15 N72-20446
Simplified technique and device for producing industrial grade synthetic diamonds
[NASA-CASE-MFS-20698-2] c15 N73-19457

DIAPHRAGMS (MECHANICS)
Expulsion and measuring device for determining quantity of liquid in tank under conditions of weightlessness
[NASA-CASE-XMS-01546] c14 N70-40233
Reinforcing beam system for highly flexible diaphragms in valves or pressure switches
[NASA-CASE-XNP-01962] c32 N70-41370
Flexible rocket motor nozzle closure device to aid ignition and protect rocket chamber from foreign objects
[NASA-CASE-XLA-02651] c28 N70-41967
Knife structure for controlling rupture of shock tube diaphragms
[NASA-CASE-XAC-00731] c11 N71-15960
Magnetically opened diaphragm design with camera shutter and expansion tube applications
[NASA-CASE-XLA-03660] c15 N71-21060
Design and development of inertia diaphragm pressure transducer
[NASA-CASE-XAC-02981] c14 N71-21072
Punch and die device for forming convolution series in thin gage metal hemispheres
[NASA-CASE-XNP-05297] c15 N71-23811
Rubber composition for expulsion bladders and diaphragms for use with hydrazine
[NASA-CASE-NPO-11433] c18 N71-31140
Development of differential pressure control system using motion of mechanical diaphragms to operate electric switch
[NASA-CASE-MFS-14216] c14 N73-13418
Spacesuit mobility joints
[NASA-CASE-ARC-11058-1] c54 N77-15641

DIATOMIC GASES
Diatomic infrared gasdynamic laser --- for producing different wavelengths
[NASA-CASE-ARC-10370-1] c36 N75-31426

DICHROISM
Dichroic plate --- as bandpass filters
[NASA-CASE-NPO-13506-1] c35 N76-15435

DIELECTRIC PROPERTIES
Capacitive tank gaging device for monitoring one constituent of two phase fluid by sensing dielectric constant
[NASA-CASE-MFS-21629] c14 N72-22442
Fine particulate capture device
[NASA-CASE-LEW-11583-1] c37 N74-13199

DIELECTRICS
Fabricating solar cells with dielectric layers to improve glass fusion
[NASA-CASE-XGS-04531] c03 N69-24267
Temperature sensitive capacitor device for detecting very low intensity infrared radiation
[NASA-CASE-XNP-09750] c14 N69-39937
Electrical power system for space flight vehicles operating over extended periods
[NASA-CASE-XMF-00517] c03 N70-34157
Nose cone mounted heat resistant antenna comprising plurality of adjacent layers of silica not introducing paths of high thermal conductivity through ablative shield
[NASA-CASE-XMS-04312] c07 N71-22984
Broadband microwave waveguide window to compensate dielectric material filling
[NASA-CASE-XNP-08880] c09 N71-24808
Laser machining device with dielectric functioning as beam waveguide for mechanical and medical applications
[NASA-CASE-HQN-10541-2] c15 N71-27135
Quasi-optical microwave circuit with dielectric body for use with oversize waveguides
[NASA-CASE-ERC-10011] c07 N71-29065
Semiconductor device manufacture using refractory dielectrics as diffusant masks and interconnection insulating materials
[NASA-CASE-XER-08476-1] c26 N72-17820
Material compositions and processes for developing dielectric thick films used in microcircuit capacitors
[NASA-CASE-LAR-10294-1] c26 N72-28762

Low loss dichroic plate
[NASA-CASE-NPO-13171-1] c32 N74-11000
Electrostatic measurement system --- for contact-electrifying a dielectric
[NASA-CASE-MFS-22129-1] c33 N75-18477
Method and apparatus for measurement of trap density and energy distribution in dielectric films
[NASA-CASE-NPO-13443-1] c76 N76-20994
Charge injection method and apparatus of producing large area electrets
[NASA-CASE-MFS-23186-1] c33 N76-23483

DIES
Punch and die device for forming convolution series in thin gage metal hemispheres
[NASA-CASE-XNP-05297] c15 N71-23811
Development and characteristics of frusto-conical die nib for extrusion of refractory metals
[NASA-CASE-XLE-06773] c15 N71-23817

DIESEL ENGINES
Hydrogen-fueled engine
[NASA-CASE-NPO-13763-1] c37 N77-11398

DIETS
Reduction of blood serum cholesterol
[NASA-CASE-NPO-12119-1] c52 N75-15270

DIFFERENTIAL AMPLIFIERS
Temperature compensated solid state differential amplifier with application in bioinstrumentation circuits
[NASA-CASE-XAC-00435] c09 N70-35440
Stepping motor control apparatus exciting windings in proper time sequence to cause motor to rotate in either direction
[NASA-CASE-GSC-10366-1] c10 N71-18772

DIFFERENTIAL INTERFEROMETRY
Device for determining acceleration of gravity by interferometric measurement of travel of falling body
[NASA-CASE-XMF-05044] c14 N71-17587

DIFFERENTIAL PRESSURE
Relief valve to permit slow and fast bleeding rates at difference pressure levels
[NASA-CASE-XMS-05894-1] c15 N69-21924
Apparatus for ejecting covers of instrument packages using differential pressure principle
[NASA-CASE-XMF-04132] c15 N69-27502
Differential optoacoustic absorption detector
[NASA-CASE-NPO-13759-1] c35 N77-11363

DIFFERENTIATORS
Window comparator
[NASA-CASE-FRC-10090-1] c33 N77-11296

DIFFRACTION
Highly stable optical mirror assembly optimizing image quality of light diffraction patterns
[NASA-CASE-ERC-10001] c23 N71-24868

DIFFRACTION PATTERNS
Digital sensor for counting fringes produced by interferometers with improved sensitivity and one photomultiplier tube to eliminate alignment problem
[NASA-CASE-LAR-10204] c14 N71-27215

DIFFRACTOMETERS
Dual purpose optical instrument capable of simultaneously acting as spectrometer and diffractometer
[NASA-CASE-XNP-05231] c14 N73-28491

DIFFUSERS
Transmitting and reflecting diffuser
[NASA-CASE-LAR-10385-3] c23 N73-32538
Application of semiconductor diffusants to solar cells by screen printing
[NASA-CASE-LEW-12775-1] c44 N77-24589

DIFFUSION
Selective gold diffusion on monolithic silicon chips for switching and nonswitching amplifier devices and circuits and linear and digital logic circuits
[NASA-CASE-ERC-10072] c09 N70-11148
Metallic film diffusion for boundary lubrication in aerospace engineering
[NASA-CASE-XLE-10337] c15 N71-24046
Transmitting and reflecting diffuser --- for ultraviolet light
[NASA-CASE-LAR-10385-2] c70 N74-13436

DIFFUSION PUMPS
Oil trap for preventing diffusion pump backstreaming into evacuated system
[NASA-CASE-GSC-10518-1] c15 N72-22489
Programmable physiological infusion
[NASA-CASE-ARC-10447-1] c52 N74-22771

DIFFUSION WELDING
Method for diffusion welding dissimilar metals in vacuum chamber
[NASA-CASE-GSC-10303] c15 N72-22487
Reinforced FEP Teflon composite material diffusion bonded to metal substrate
[NASA-CASE-MFS-20482] c15 N72-22492
Two-step diffusion welding process of unrecrystallized alloys
[NASA-CASE-LEW-11388-1] c15 N73-32358
Method of fluxless brazing and diffusion bonding of aluminum containing components
[NASA-CASE-MSC-14435-1] c37 N76-18455
A complementary DMOS-VMOS integrated circuit structure
[NASA-CASE-GSC-12190-1] c33 N77-29403

DIGITAL COMMAND SYSTEMS
Digitally controlled frequency synthesizer for pulse frequency modulation telemetry systems
[NASA-CASE-XGS-02317] c09 N71-23525
System for maintaining motor at predetermined speed using digital pulses
[NASA-CASE-XMF-06892] c09 N71-24805
Digital filter for reducing jitter in digital control systems
[NASA-CASE-NPO-11088] c08 N71-29034

DIGITAL COMPUTERS
Device for removing plastic dust cover from digital computer disk packs for inspection and cleaning
[NASA-CASE-LAR-10590-1] c15 N70-26819
Binary number sorter for arranging numbers in order of magnitude
[NASA-CASE-NPO-10112] c08 N71-12502
Binary sequence detector with few memory elements and minimized logic circuit complexity
[NASA-CASE-XNP-05415] c08 N71-12505
Digital computer system for automatic prelaunch checkout of spacecraft
[NASA-CASE-XKS-08012-2] c31 N71-15566
Description of error correcting methods for use with digital data computers and apparatus for encoding and decoding digital data
[NASA-CASE-XNP-02748] c08 N71-22749
Serial digital decoder design with square circuit matrix and serial memory storage units
[NASA-CASE-NPO-10150] c08 N71-24650
Digital magnetic core memory with sensing amplifier circuits
[NASA-CASE-XNP-01012] c08 N71-28925
Redundant memory for enhanced reliability of digital data processing system
[NASA-CASE-GSC-10564] c10 N71-29135
Digital converter for scaling binary number to binary coded decimal number of higher multiple
[NASA-CASE-KSC-10595] c08 N73-12176
Fault tolerant clock apparatus utilizing a controlled minority of clock elements
[NASA-CASE-MSC-12531-1] c35 N75-30504
Two-dimensional radiant energy array computers and computing devices
[NASA-CASE-GSC-11839-2] c60 N76-18803
Two-dimensional radiant energy array computers and computing devices
[NASA-CASE-GSC-11839-1] c60 N77-14751

DIGITAL DATA
Phase shift data transmission system with pseudo-noise synchronization code modulated with digital data into single channel for spacecraft communication
[NASA-CASE-XNP-00911] c08 N70-41961
Tape guidance system for multichannel digital recording system
[NASA-CASE-XNP-09453] c08 N71-19420
Digital telemetry system apparatus to reduce tape recorder wow and flutter noise during playback
[NASA-CASE-XGS-01812] c07 N71-23001
Digital data handling circuits for pulse amplifiers
[NASA-CASE-XNP-01068] c10 N71-28739
Bit synchronization system using digital data transition tracking phased locked loop
[NASA-CASE-NPO-10844] c07 N72-20140
Control and information system for digital telemetry data using analog converter to digitize sensed parameter values

[NASA-CASE-NPO-11016] c08 N72-31226
Development and characteristics for automatically displaying digits in any desired order using optical techniques
[NASA-CASE-XKS-00348] c09 N73-14215
Digital plus analog output encoder
[NASA-CASE-GSC-12115-1] c62 N76-31946
Digital data reformatter/deserializer
[NASA-CASE-NPO-13676-1] c60 N77-24781
DIGITAL FILTERS
Design and development of signal detection and tracking apparatus
[NASA-CASE-XGS-03502] c10 N71-20852
Digital filter for reducing jitter in digital control systems
[NASA-CASE-NPO-11088] c08 N71-29034
Nonrecursive counting digital filter containing shift register
[NASA-CASE-NPO-11821-1] c08 N73-26175
Filtering device --- removing electromagnetic noise from voice communication signals
[NASA-CASE-MFS-22729-1] c32 N76-21366
DIGITAL SPACECRAFT TELEVISION
TV camera output signal control system for digital spacecraft communication
[NASA-CASE-XNP-01472] c14 N70-41807
DIGITAL SYSTEMS
Light sensitive digital aspect sensor for attitude control of earth satellites or space probes
[NASA-CASE-XGS-00359] c14 N70-34158
Circuit diagram and operation of full binary adder
[NASA-CASE-XGS-00689] c08 N70-34787
Digital telemetry system apparatus to reduce tape recorder wow and flutter noise during playback
[NASA-CASE-XGS-01812] c07 N71-23001
Reliable magnetic core circuit apparatus with application in selection matrices for digital memories
[NASA-CASE-XNP-01318] c10 N71-23033
Noninterruptable digital counter circuit design with display device for pulse frequency modulation
[NASA-CASE-XNP-09759] c08 N71-24891
Digital memory system with multiple switch cores for driving each word location
[NASA-CASE-XNP-01466] c10 N71-26434
Digital quasi-exponential function generator
[NASA-CASE-NPO-11130] c08 N72-20176
Digital function generator for generating any arbitrary single valued function
[NASA-CASE-NPO-11104] c08 N72-22165
Digital video system for displaying image and alphanumeric data on cathode ray tube
[NASA-CASE-NPO-11342] c09 N72-25248
Data compression using decreasing slope threshold test and digital techniques
[NASA-CASE-NPO-11630] c08 N72-33172
Characteristics of digital data processor using pulse from clock source to derive binary singles to show state of various indicators in processor
[NASA-CASE-GSC-10975-1] c08 N73-13187
Low phase noise frequency divider for use with deep space network communication system
[NASA-CASE-NPO-11569] c10 N73-26229
Synchronized digital communication system
[NASA-CASE-XNP-03623] c09 N73-28084
Digital second-order phase-locked loop
[NASA-CASE-NPO-11905-1] c33 N74-12887
Digital controller for a Baum folding machine --- providing automatic counting and machine shutoff
[NASA-CASE-LAR-10688-1] c37 N74-21056
Digital transmitter for data bus communications system
[NASA-CASE-MSC-14558-1] c32 N75-21486
Automatic character skew and spacing checking network --- of digital tape drive systems
[NASA-CASE-GSC-11925-1] c33 N76-18353
Anti-multipath digital signal detector
[NASA-CASE-LAR-11827-1] c32 N77-10392
Bit error rate measurement above and below bit rate tracking threshold
[NASA-CASE-MSC-12743-1] c32 N77-19290
Multiple rate digital command detection system with range clean-up capability
[NASA-CASE-NPO-13753-1] c32 N77-20289
Digital automatic gain amplifier
[NASA-CASE-KSC-11008-1] c33 N77-21321
Digital demodulator-correlator --- for rangefinding
[NASA-CASE-NPO-13982-1] c32 N77-24341
Open loop digital frequency multiplier
[NASA-CASE-MSC-12709-1] c33 N77-24375
DIGITAL TECHNIQUES
Describing frequency discriminator using digital logic circuits and supplying single binary output signal
[NASA-CASE-MFS-14322] c08 N71-18692
Constructing Exclusive-Or digital logic circuit in single module
[NASA-CASE-XLA-07732] c08 N71-18751
Horizon sensor design with digital sampling of spaced radiation-compensated thermopile infrared detectors
[NASA-CASE-XNP-06957] c14 N71-21088
Digital cardiotachometer incorporating circuit for measuring heartbeat rate of subject over predetermined portion of one minute also converting rate to beats per minute
[NASA-CASE-XMS-02399] c05 N71-22896
Digital syrchronizer for extracting binary data in receiver of PSK/PCM communication system
[NASA-CASE-NPO-10851] c07 N71-24613
Digital sensor for counting fringes produced by interferometers with improved sensitivity and one photomultiplier tube to eliminate alignment problem
[NASA-CASE-LAR-10204] c14 N71-27215
Development and characteristics for automatically displaying digits in any desired order using optical techniques
[NASA-CASE-XKS-00348] c09 N73-14215
Apparatus and digital technique for coding rate data
[NASA-CASE-LAR-10128-1] c08 N73-20217
Digital communication system
[NASA-CASE-MSC-13912-1] c32 N74-30524
Digital phase-locked loop
[NASA-CASE-GSC-11623-1] c33 N75-25040
DIGITAL TO ANALOG CONVERTERS
Development and characteristics of rate augmented digital to analog converter for computed time-dependent data
[NASA-CASE-XLA-07828] c08 N71-27057
Digital to analog converter with parallel input/output memory device
[NASA-CASE-KSC-10397] c08 N72-25206
Digital to analog converter for sampled signal reconstruction
[NASA-CASE-MSC-12458-1] c08 N73-32081
DIGITAL TRANSDUCERS
Digital to analog converter for sampled signal reconstruction
[NASA-CASE-MSC-12458-1] c08 N73-32081
Angle detector
[NASA-CASE-ARC-11036-1] c35 N77-11364
DIISOCYANATES
Chemical and physical properties of synthetic polyurethane polymer prepared by reacting hydroxy carbonate with organic diisocyanate
[NASA-CASE-MFS-10512] c06 N73-30099
Preparation of stable polyurethane polymer by reacting polymer with diisocyanate
[NASA-CASE-MFS-10506] c06 N73-30100
Preparation of polyurethane polymer by reacting hydroxy polyformal with organic diisocyanate
[NASA-CASE-MFS-10509] c06 N73-30103
DIMENSIONS
Projection system for display of parallax and perspective
[NASA-CASE-MFS-23194-1] c74 N76-13909
DIODES
Single electrical circuit component combining diode, fuse, and blown indicator with elongated tube of heat resistant transparent material
[NASA-CASE-XKS-03381] c09 N71-22796
Maintaining current flow through solar cells with open connection using shunting diode
[NASA-CASE-XLE-04535] c03 N71-23354
Gunn effect microwave diodes with RF shielding
[NASA-CASE-EBC-10119] c26 N72-21701
Transistorized switching logic circuits with tunnel diodes
[NASA-CASE-GSC-10878-1] c10 N72-22236

Development of method and apparatus for detecting surface ions on silicon diodes and transistors
[NASA-CASE-ERC-10325] c15 N72-25457
Development of temperature compensated light source with components and circuitry for maintaining luminous intensity independent of temperature variations
[NASA-CASE-ARC-10467-1] c09 N73-14214
Silicon carbide backward diode with coated lead attachment
[NASA-CASE-ERC-10224-2] c09 N73-27150
Diode-quad bridge circuit means
[NASA-CASE-ARC-10364-2(B)] c33 N74-14941
High isolation RF signal selection switches
[NASA-CASE-NPO-13081-1] c33 N74-22814
Logarithmic circuit with wide dynamic range
[NASA-CASE-GSC-12145-1] c33 N77-19319
A regulated high efficiency, lightweight capacitor-diode multiplier DC to DC converter
[NASA-CASE-LEW-12791-1] c33 N77-24385

DIPOLE ANTENNAS
Circularly polarized antenna with linearly polarized pair of elements
[NASA-CASE-ERC-10214] c09 N72-31235

DIRECT CURRENT
Regulated dc to dc converter
[NASA-CASE-XGS-03429] c03 N69-21330
Automatic control of voltage supply to direct current motor
[NASA-CASE-XMS-04215-1] c09 N69-39987
Thermionic diode switch for use in high temperature region to chop current from dc source
[NASA-CASE-NPO-10404] c03 N71-12255
Transistorized dc-coupled multivibrator with noninverted output signal
[NASA-CASE-XNP-09450] c10 N71-18723
Stepping motor control apparatus exciting windings in proper time sequence to cause motor to rotate in either direction
[NASA-CASE-GSC-10366-1] c10 N71-18772
Frequency control network for current feedback oscillators converting dc voltage to ac or higher dc voltages
[NASA-CASE-GSC-10041-1] c10 N71-19418
Direct current powered self repeating plasma accelerator with interconnected annular and linear discharge channels
[NASA-CASE-XLA-03103] c25 N71-21693
Conversion of positive dc voltage to positive dc voltage of lower amplitude
[NASA-CASE-XMF-14301] c09 N71-23188
Converting output of positive dc voltage source to negative dc voltage across load with common reference point
[NASA-CASE-XMF-08217] c03 N71-23239
Blood pressure measuring system for separately recording dc and ac pressure signals of Korotkoff sounds
[NASA-CASE-XMS-06061] c05 N71-23317
Radio frequency coaxial filter to provide dc isolation and low frequency signal rejection in audio range
[NASA-CASE-XGS-01418] c09 N71-23573
Brushless dc tachometer design with Hall effect crystals and output voltage magnitude proportional to rotor speed
[NASA-CASE-NFS-20385] c09 N71-24904
Inverters for changing direct current to alternating current
[NASA-CASE-XGS-06226] c10 N71-25950
Circuits for controlling reversible dc motor
[NASA-CASE-XNP-07477] c09 N71-26092
Feedback control for direct current motor to achieve constant speed under varying loads
[NASA-CASE-NFS-14610] c09 N71-28886
High dc switch for causing abrupt, cyclic, decreases of current to operate under zero or varying gravity conditions
[NASA-CASE-LEW-10155-1] c09 N71-29035
Power converters for supplying direct current at one voltage from source at another voltage
[NASA-CASE-XER-11046] c09 N72-22203
Dc to ac to dc converter with transistor driven synchronous rectifiers
[NASA-CASE-GSC-11126-1] c09 N72-25253
Direct current motor including stationary field windings and stationary armature winding
[NASA-CASE-XGS-07805] c15 N72-33476
Powerplexer for distribution of dc power levels to loads which require different voltages
[NASA-CASE-MSC-12396-1] c03 N73-31988
Bio-isolated dc operational amplifier --- for bioelectric measurements
[NASA-CASE-ARC-10596-1] c33 N74-21851
Load insensitive electrical device --- power converters for supplying direct current at one voltage from a source at another voltage
[NASA-CASE-XER-11046-2] c33 N74-22864
Differential pulse code modulation
[NASA-CASE-MSC-12506-1] c32 N77-12239
Method of electrically pre-stressing insulation to provide directional increase in dc potential breakdown
[NASA-CASE-LEW-12273-1] c33 N77-17357
Direct current transformer
[NASA-CASE-NFS-23659-1] c33 N77-20341
Three phase full wave dc motor decoder
[NASA-CASE-GSC-11824-1] c33 N77-26386

DIRECT POWER GENERATORS
Direct conversion of thermal energy into electrical energy using crossed electric and magnetic fields
[NASA-CASE-XLE-00212] c03 N70-34134
Thermal pump-compressor for converting solar energy
[NASA-CASE-XLA-00377] c33 N71-17610
Converting output of positive dc voltage source to negative dc voltage across load with common reference point
[NASA-CASE-XMF-08217] c03 N71-23239
Unsaturating magnetic core transformer design with warning signal for electrical power processing equipment
[NASA-CASE-ERC-10125] c09 N71-24893
Load insensitive electrical device --- power converters for supplying direct current at one voltage from a source at another voltage
[NASA-CASE-XER-11046-2] c33 N74-22864
Cesium thermionic converters having lanthanum hexaboride electrodes
[NASA-CASE-LEW-12038-2] c44 N77-32595

DIRECTIONAL ANTENNAS
Mechanical coordinate converter for use with spacecraft tracking antennas
[NASA-CASE-XNP-00614] c14 N70-36907
Weatherproof helix antenna
[NASA-CASE-XKS-08485] c07 N71-19493
Tracking antenna system with array for synchronous satellite or ground based radar
[NASA-CASE-GSC-10553-1] c07 N71-19854
Drive system for parabolic tracking antenna with reversible motion and minimal backlash
[NASA-CASE-NPO-10173] c15 N71-24696
Variable beamwidth antenna --- with multiple beam, variable feed system
[NASA-CASE-GSC-11862-1] c32 N76-18295

DIRECTIONAL CONTROL
Gimbaled partially submerged nozzle for solid propellant rocket engines for providing directional control
[NASA-CASE-XMF-01544] c28 N70-34162
Omnidirectional wheel
[NASA-CASE-NFS-21309-1] c37 N74-18125

DIRECTIONAL STABILITY
Nose gear steering system for vehicles with main skids to provide directional stability after loss of aerodynamic control
[NASA-CASE-XLA-01804] c02 N70-34160
System for imposing directional stability on a rocket-propelled vehicle
[NASA-CASE-NFS-21311-1] c20 N76-21275

DISCONNECT DEVICES
Patent data on gas actuated bolt disconnect assembly
[NASA-CASE-XLA-00326] c03 N70-34667
Remotely actuated quick disconnect mechanism for umbilical cables
[NASA-CASE-XLA-00711] c03 N71-12258
Remotely actuated quick disconnect for tubular umbilical conduits used to transfer fluids from ground to rocket vehicle
[NASA-CASE-XLA-01396] c03 N71-12259
Design and development of quick release connector
[NASA-CASE-XLA-01141] c15 N71-13789
Split nut and bolt separation device
[NASA-CASE-XNP-06914] c15 N71-21489

Electrical circuit selection device for simulating stage separation of flight vehicle
[NASA-CASE-XKS-04631] c10 N71-23663
Quick disconnect duct coupling device for single-handed operation
[NASA-CASE-MFS-20395] c15 N71-24903
Breakaway multiwire electrical cable connector with particular application for umbilical type cables
[NASA-CASE-NPO-11140] c15 N72-17455
Torsional disconnect device for releasably coupling distal ends of fluid conduits
[NASA-CASE-NPO-10704] c15 N72-20445
Frangible connecting link suitable for rocket stage separation
[NASA-CASE-MSC-11849-1] c15 N72-22488
Gas operated quick disconnect coupling for umbilical connectors
[NASA-CASE-NPO-11202] c15 N72-25450
Quick disconnect filter coupling
[NASA-CASE-MFS-22323-1] c37 N76-14463
Positive isolation disconnect
[NASA-CASE-MSC-16043-1] c37 N77-15397

DISCONTINUITY
Servocontrol system for measuring local stresses at geometric discontinuity in stressed material
[NASA-CASE-XLA-08530] c32 N71-25360

DISCRIMINATORS
Detector assembly for discriminating first signal with respect to presence or absence of second signal at time of occurrence of first signal
[NASA-CASE-XMF-00701] c09 N70-40272
Difference indicating circuit used in conjunction with device measuring gravitational fields
[NASA-CASE-XNP-08274] c10 N71-13537
Describing frequency discriminator using digital logic circuits and supplying single binary output signal
[NASA-CASE-MFS-14322] c08 N71-18692
Circuit design for determining amount of photomultiplier tube light detection utilizing variable current source and dark current signals of opposite polarity
[NASA-CASE-XMS-03478] c14 N71-21040
Characteristics of comparator circuits for comparison of binary numbers in information processing system
[NASA-CASE-XNP-04819] c08 N71-23295
Diode-quad bridge circuit means
[NASA-CASE-ARC-10364-3] c33 N75-19520
Diode-quad bridge circuit means
[NASA-CASE-ARC-10364-2] c33 N75-25041

DISPENSERS
Liquid aerosol dispenser with explosively driven piston to compress light gas to extremely high pressure
[NASA-CASE-MFS-20829] c12 N72-21310
Potable water dispenser
[NASA-CASE-MFS-21115-1] c54 N74-12779
Lyophilized spore dispenser
[NASA-CASE-LAR-10544-1] c37 N74-13178
Metering gun for dispensing precisely measured charges of fluid
[NASA-CASE-MFS-21163-1] c54 N74-17853
Automatic fluid dispenser
[NASA-CASE-ARC-10820-1] c54 N75-32766

DISPERSING
Apparatus for mechanically dispersing ultrafine metal powders subjected to shock waves
[NASA-CASE-XLE-04946] c17 N71-24911

DISPERSIONS
Method for producing alkali metal dispersions of high purity
[NASA-CASE-XNP-08876] c17 N73-28573
Apparatus for measuring a sorbate dispersed in a fluid stream
[NASA-CASE-ARC-10896-1] c34 N75-32389

DISPLACEMENT
Bimetallic fluid displacement apparatus --- for stirring and heating stored gases and liquids
[NASA-CASE-ARC-10441-1] c35 N74-15126

DISPLACEMENT MEASUREMENT
Null-type vacuum microbalance for measuring minute mechanical displacements
[NASA-CASE-XAC-00472] c15 N70-40180
Development and characteristics of self-calibrating displacement transducer for measuring magnitude and frequency of displacement of bodies
[NASA-CASE-XLA-00781] c09 N71-22999
Gas bearing for model support with capacity for measuring angular displacement of model in bearing
[NASA-CASE-XLA-09346] c15 N71-28740
Method and apparatus for remote measurement of displacement of marks on specimen undergoing tensile test
[NASA-CASE-NPO-10778] c14 N72-11364
Miniature muscle displacement transducer
[NASA-CASE-NPO-13519-1] c33 N76-19338

DISPLAY DEVICES
Integrated time shared instrumentation display for aerospace vehicle simulators
[NASA-CASE-XLA-01952] c08 N71-12507
Data processing and display system for terminal guidance of X-15 aircraft
[NASA-CASE-XFR-00756] c02 N71-13421
Fluidic-thermochromic display device
[NASA-CASE-ERC-10031] c12 N71-18603
Cathode ray tube system for displaying ones and zeros in binary wave train
[NASA-CASE-XGS-04987] c08 N71-20571
Optical projector system for establishing optimum arrangement of instrument displays in aircraft, spacecraft, other vehicles, and industrial instrument consoles
[NASA-CASE-XNP-03853] c23 N71-21882
Optical monitor panel consisting of translucent screen with test or meter information projected onto it from rear for application in control rooms of missile launching and tracking stations
[NASA-CASE-XKS-03509] c14 N71-23175
Binary to decimal decoder logic circuit design with feedback control and display device
[NASA-CASE-XKS-06167] c08 N71-24890
Noninterruptable digital counter circuit design with display device for pulse frequency modulation
[NASA-CASE-XNP-09759] c08 N71-24891
Data acquisition system for converting displayed analog signal to digital values
[NASA-CASE-NPO-10344] c10 N71-26544
Plasma-fluidic hybrid display system combining high brightness and memory characteristics
[NASA-CASE-ERC-10100] c09 N71-33519
System for digitizing graphic displays
[NASA-CASE-NPO-10745] c08 N72-22164
Digital video system for displaying image and alphanumeric data on cathode ray tube
[NASA-CASE-NPO-11342] c09 N72-25248
Development of apparatus for mounting scientific experiments in spacecraft to permit utilization without maneuvering spacecraft
[NASA-CASE-MSC-12372-1] c31 N72-25842
Development and characteristics for automatically displaying digits in any desired order using optical techniques
[NASA-CASE-XKS-00348] c09 N73-14215
Situational display system of cathode ray tubes to assist pilot in aircraft control
[NASA-CASE-ERC-10350] c14 N73-20474
Device for displaying and recording angled views of samples to be viewed by microscope
[NASA-CASE-GSC-11690-1] c14 N73-28499
Transparent switchboard which permits optical display devices to be adapted for use in man machine communications
[NASA-CASE-MSC-13746-1] c10 N73-32143
Recorder/processor apparatus --- for optical data processing
[NASA-CASE-GSC-11553-1] c35 N74-15831
Rotating raster generator
[NASA-CASE-FRC-10071-1] c32 N74-20813
G-load measuring and indicator apparatus --- for aircraft
[NASA-CASE-ARC-10806] c06 N74-27872
Field sequential stereo television
[NASA-CASE-MSC-12616-1] c32 N74-32601
X-Y alphanumeric character generator for oscilloscopes
[NASA-CASE-GSC-11582-1] c33 N75-19517
Full color hybrid display for aircraft simulators
[NASA-CASE-ARC-10903-1] c09 N76-10148
Projection system for display of parallax and perspective

[NASA-CASE-MFS-23194-1] c74 N76-13909
Turbulence intensity indicator
[NASA-CASE-LAR-11833-1] c06 N76-31229
EKG and ultrasonoscope display
[NASA-CASE-ARC-10994-2] c52 N77-15619
Crosswind landing gear position indicator
[NASA-CASE-LAR-11941-1] c06 N77-20098
Binocular device for displaying numerical information in field of view
[NASA-CASE-LAR-11782-1] c74 N77-20882

DISSIPATION
Dissipative voltage regulator system for minimizing heat dissipation
[NASA-CASE-GSC-10891-1] c10 N71-26626

DISSOCIATION
Solar hydrogen generator
[NASA-CASE-LAR-11361-1] c44 N77-22607

DISSOLVING
Apparatus for mixing two or more liquids under zero gravity conditions
[NASA-CASE-LAR-10195-1] c15 N73-19458

DISTANCE MEASURING EQUIPMENT
Binary coded sequential acquisition ranging system for distance measurements
[NASA-CASE-NPO-11194] c08 N72-25209
Apparatus for determining distance to lighting strokes from single station by magnetic and electric field sensing antennas
[NASA-CASE-KSC-10698] c07 N73-20175

DISTILLATION EQUIPMENT
Utilization of solar radiation by solar still for converting salt and brackish water into potable water
[NASA-CASE-XMS-04533] c15 N71-23086
Purification apparatus for vaporization and fractional distillation of liquids
[NASA-CASE-XNP-08124] c15 N71-27184
U shaped heated tube for distillation and purification of liquid metals
[NASA-CASE-XNP-08124-2] c06 N73-13129

DISTRIBUTED AMPLIFIERS
Broadband distribution amplifier with complementary pair transistor output stages
[NASA-CASE-NPO-10003] c10 N71-26415

DISTRIBUTORS
High voltage distributor
[NASA-CASE-GSC-11849-1] c33 N76-16332

DIVERGENT NOZZLES
Jet exhaust noise suppressor
[NASA-CASE-LEW-11286-1] c07 N74-27490

DIVIDERS
A synchronous binary array divider
[NASA-CASE-ERC-10180-1] c60 N74-20836

DOCUMENT STORAGE
Describing device for flagging punched business cards
[NASA-CASE-XLA-02705] c08 N71-15908

DOORS
Design and specifications of emergency escape system for spacecraft structures
[NASA-CASE-MSC-12086-1] c 5 N71-12345

DOPPLER EFFECT
Doppler frequency shift correction device for multiplex communication with Applications Technology Satellites
[NASA-CASE-XGS-02749] c07 N69-39978
Describing laser Doppler velicometer for measuring mean velocity and turbulence of fluid flow
[NASA-CASE-MFS-20386] c21 N71-19212
Doppler compensated communication system for locating supersonic transport position
[NASA-CASE-GSC-10087-4] c07 N73-20174
Doppler shift system --- system for measuring velocities of radiating particles
[NASA-CASE-HQN-10740-1] c72 N74-19310

DOPPLER RADAR
Cooperative Doppler radar system for avoiding midair collisions
[NASA-CASE-LAR-10403] c21 N71-11766

DOSIMETERS
Development of dosimeter for measuring absorbed dose of high energy ionizing radiation
[NASA-CASE-XLA-03645] c14 N71-20430

DRAG CHUTES
Deployment system for flexible wing with rigid superstructure
[NASA-CASE-XLA-01220] c02 N70-41863
Lightweight, variable solidity knitted parachute fabric --- for aerodynamic decelerators
[NASA-CASE-LAR-10776-1] c02 N74-10034

DRAG MEASUREMENT
Device for measuring drag forces in flight tests
[NASA-CASE-XLA-00113] c14 N70-33386
Electric analog for measuring induced drag on nonplanar airfoils
[NASA-CASE-XLA-00755] c01 N71-13410
Electric analog for measuring induced drag on nonplanar airfoils
[NASA-CASE-XLA-05828] c01 N71-13411
Impact energy absorber with decreasing absorption rate
[NASA-CASE-XLA-01530] c14 N71-23092

DRAG REDUCTION
Directed fluid stream for propeller blade loading control
[NASA-CASE-XAC-00139] c02 N70-34856
Aircraft wheel spray drag alleviator for dual tandem landing gear
[NASA-CASE-XLA-01583] c02 N70-36825

DRIFT (INSTRUMENTATION)
Automatic measuring and recording of gain and zero drift characteristics of electronic amplifier
[NASA-CASE-XMS-05562-1] c09 N69-39986
Solar radiation direction detector and device for compensating degradation of photocells
[NASA-CASE-XLA-00183] c14 N70-40239
Failure detection and control means for improved drift performance of a gimballed platform system
[NASA-CASE-MFS-23551-1] c04 N76-26175

DRILL BITS
Impact bit for cutting, collecting, and storing samples such as lunar rock cuttings
[NASA-CASE-XNP-01412] c15 N70-42034
Hole cutter --- drill bits and rotating shaft
[NASA-CASE-MFS-22649-1] c37 N75-25186

DRILLS
Rotary impact-type rock drill for recovering rock cuttings
[NASA-CASE-XNP-07478] c14 N69-21923
Auger-type soil penetrometer for burrowing into soil formations
[NASA-CASE-XNP-05530] c14 N73-32321
Adjustable chamfering tool
[NASA-CASE-NPO-10857-1] c37 N77-22478

DRIVES
Inverter drive circuit for semiconductor switch
[NASA-CASE-LEW-10233] c10 N71-27126

DROPS (LIQUIDS)
Development of droplet monitoring probe for use in analysis of droplet propagation in mixed-phase fluid stream
[NASA-CASE-NPO-10985] c14 N73-20478

DRUGS
Automated analysis of oxidative metabolites
[NASA-CASE-ARC-10469-1] c25 N75-12086

DRY CELLS
Energy source with tantalum capacitors in parallel and miniature silver oxide button cells for initiating pyrotechnic devices on spacecraft and rocket vehicles
[NASA-CASE-LAR-10367-1] c03 N70-26817

DRYING
Drying chamber for photographic sheet material
[NASA-CASE-GSC-11074-1] c14 N73-28489

DRYING APPARATUS
Gas purged dry box glove reducing permeation of air or moisture into dry box or isolator by diffusion through glove
[NASA-CASE-XLE-02531] c05 N71-23080

DUCTS
Quick disconnect duct coupling device for single-handed operation
[NASA-CASE-MFS-20395] c15 N71-24903
Externally supported internally stabilized flexible duct joint
[NASA-CASE-MFS-19194-1] c37 N76-14460

DUST COLLECTORS
Device for removing plastic dust cover from digital computer disk packs for inspection and cleaning
[NASA-CASE-LAR-10590-1] c15 N70-26819

DYE LASERS
Infrared tunable dye laser with nonlinear wavelength mixing crystal in optical cavity
[NASA-CASE-ARC-10463-1] c09 N73-32111

Laser head for simultaneous optical pumping of several dye lasers --- with single flash lamp
[NASA-CASE-LAR-11341-1] c36 N75-19655
Two wavelength double pulse tunable dye laser
[NASA-CASE-LAR-12012-1] c36 N77-10517

DYES
Dye penetrant and technique for nondestructive tests of solid surfaces contacted by liquid oxygen
[NASA-CASE-XMF-02221] c18 N71-27170

DYNAMIC CHARACTERISTICS
Dynamic sensor for gas pressure or density measurement
[NASA-CASE-XAC-02877] c14 N70-41681
Design of precision vertical alignment system using laser with gravitationally sensitive cavity
[NASA-CASE-ARC-10444-1] c16 N73-33397

DYNAMIC CONTROL
Motion restraining device --- for dissipating at a controlled rate the force of a moving body
[NASA-CASE-NPO-13619-1] c37 N75-22748

DYNAMIC LOADS
Multilegged support system for wind tunnel test models subjected to thermal dynamic loading
[NASA-CASE-XLA-01326] c11 N71-21481
Apparatus for measuring load on cable under static or dynamic conditions comprising pulleys pivoting structure against restraint of tension strap
[NASA-CASE-XMS-04545] c15 N71-22878
Development and characteristics of device for indicating and recording magnitude of force applied in axial direction
[NASA-CASE-MSC-15626-1] c14 N72-25411

DYNAMIC MODULUS OF ELASTICITY
Apparatus for testing metallic and nonmetallic beams or rods by bending at high temperatures in vacuum or inert atmosphere
[NASA-CASE-XLE-01300] c15 N70-41993

DYNAMIC RESPONSE
Lunar and planetary gravity simulator to test vehicular response to landing
[NASA-CASE-XLA-00493] c11 N70-34786
Pressure sensor network for measuring liquid dynamic response in flight including fuel tank acceleration, liquid slosh amplitude, and fuel depth monitoring
[NASA-CASE-XLA-05541] c12 N71-26387
Response analyzing apparatus for liquid vapor interface sensor of sloshing rocket propellant
[NASA-CASE-MFS-11204] c14 N71-29134

DYNAMIC STRUCTURAL ANALYSIS
Development of system for measuring damping characteristics of structure or system subjected to random forces or influnces
[NASA-CASE-ARC-10154-1] c14 N72-22440

DYNAMIC TESTS
Hydraulic support equipment for full scale dynamic testing of large rocket vehicle under free flight conditions
[NASA-CASE-XMF-01772] c11 N70-41677
Hydraulic support apparatus for dynamic testing of space vehicles under near-free flight conditions
[NASA-CASE-XMF-03248] c11 N71-10604

DYNAMOMETERS
Dynamometer measuring microforce thrust produced by ion engine
[NASA-CASE-XLE-00702] c14 N70-40203
Development of thrust dynamometer for measuring performance of jet and rocket engines
[NASA-CASE-XLE-05260] c14 N71-20429

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EAR
Ear oximeter for monitoring blood oxygenation and pressure, pulse rate, and pressure pulse curve, using dc and ac amplifiers
[NASA-CASE-XAC-05422] c04 N71-23185

EARTH (PLANET)
Camera arrangement --- for satellite scanning of earth or sky
[NASA-CASE-GSC-12032-2] c35 N76-19408

EARTH ATMOSPHERE
Ablation sensor for measuring surface ablation rate of material on vehicles entering earths atmosphere on entry into planetary atmospheres
[NASA-CASE-XLA-01791] c14 N71-22991

EARTH ORBITS
Electric furnace for vacuum and zero gravity melting of high melting point materials during earth orbit
[NASA-CASE-MFS-20710] c11 N72-23215
Design and development of space shuttle system for delivering payload to earth orbit or celestial orbit
[NASA-CASE-MSC-12391] c30 N73-12884

ECHOES
A miniature implantable ultrasonic echosonometer
[NASA-CASE-ARC-11035-1] c52 N77-15621

ECONOMIC ANALYSIS
Economical satellite aided vehicle avoidance system for preventing midair collisions
[NASA-CASE-ERC-10419] c21 N72-21631

EFFICIENCY
Recovering efficiency of solar cells damaged by *environmental radiation through thermal annealing*
[NASA-CASE-XGS-04047-2] c03 N72-11062
High efficiency multifrequency feed
[NASA-CASE-GSC-11909] c32 N74-20863

EFFLUENTS
Vortex generator for controlling the dispersion of effluents in a flowing liquid
[NASA-CASE-LAR-12045-1] c34 N77-24423

EJECTION
Apparatus for ejecting covers of instrument packages using differential pressure principle
[NASA-CASE-XMF-04132] c15 N69-27502

EJECTION SEATS
Ejector for separating astronaut from ejection seat during prelaunch or initial launch phase of flight
[NASA-CASE-XMS-04625] c05 N71-20718

EJECTORS
Automatic ejection valve for attitude control and midcourse guidance of space vehicles
[NASA-CASE-XNP-00676] c15 N70-38996
Ejector for separating astronaut from ejection seat during prelaunch or initial launch phase of flight
[NASA-CASE-XMS-04625] c05 N71-20718
Latching mechanism with pivoting catch and self-contained spring ejector
[NASA-CASE-XLA-03538] c15 N71-24897

ELASTIC BODIES
Belleville spring assembly with elastic guides having low hysteresis
[NASA-CASE-XNP-09452] c15 N69-27504
Development of systems for automatically and continually suppressing or attenuating bending motion in elastic bodies
[NASA-CASE-XAC-05632] c32 N71-23971
Device for measuring tensile forces
[NASA-CASE-MFS-21728-1] c35 N74-27865

ELASTIC DEFORMATION
Measuring shear-creep compliance of solid and liquid materials used in spacecraft components
[NASA-CASE-XLE-01481] c14 N71-10781
Development of systems for automatically and continually suppressing or attenuating bending motion in elastic bodies
[NASA-CASE-XAC-05632] c32 N71-23971

ELASTIC MEDIA
Miniature vibration isolator utilizing elastic tubing material
[NASA-CASE-XLA-01019] c15 N70-40156

ELASTIC PROPERTIES
Elastic universal joint for rocket motor mounting
[NASA-CASE-XNP-00416] c15 N70-36947
Resilient vehicle wheel for lunar surface travel
[NASA-CASE-MFS-20400] c31 N71-18611
Threadless fastener apparatus comprising receiving apertures for plurality of articles, self-locked condition, and capable of using nonmalleable materials in both ends
[NASA-CASE-XFR-05302] c15 N71-23254
Chemical and elastic properties of fluorinated polyurethanes
[NASA-CASE-NPO-10767-1] c06 N73-33076
Meter for use in detecting tension in straps having predetermined elastic characteristics

[NASA-CASE-MFS-22189-1] c35 N75-19615
ELASTIC SHEETS
Hot forming of plastic sheets
[NASA-CASE-XMS-05516] c15 N71-17803
ELASTOMERS
Describing metal valve pintle with encapsulated elastomeric body
[NASA-CASE-MSC-12116-1] c15 N71-17648
Development of apparatus for measuring successive increments of strain on elastomers
[NASA-CASE-XMF-04680] c15 N71-19489
Preparation of elastomeric diamine silazane polymers
[NASA-CASE-XMF-04133] c06 N71-20717
Leak resistant bonded elastomeric seal for secondary electrochemical cells
[NASA-CASE-XGS-02631] c03 N71-23006
Conductive elastomeric extensometer
[NASA-CASE-MFS-21049-1] c52 N74-27864
A machine for use in monitoring fatigue life for a plurality of elastomeric specimens
[NASA-CASE-NPO-13731-1] c39 N76-17427
Flame retardant elastomeric compositions
[NASA-CASE-MSC-14331-2] c27 N76-24408
Flame retardant elastomeric compositions
[NASA-CASE-MSC-14331-3] c27 N76-24409
Vacuum pressure molding technique
[NASA-CASE-LAR-10073-1] c37 N76-24575
Method of making hollow elastomeric bodies
[NASA-CASE-NPO-13535-1] c37 N76-31524
ELECTRETS
Charge injection method and apparatus of producing large area electrets
[NASA-CASE-MFS-23186-1] c33 N76-23483
ELECTRIC ARCS
Magnetically diffused radial electric arc heater
[NASA-CASE-XLA-00330] c33 N70-34540
Controlled arc spot welding method
[NASA-CASE-XMF-00392] c15 N70-34814
Triggering system for electric arc driven impulse wind tunnel
[NASA-CASE-XMF-00411] c11 N70-36913
Electric arc device for minimizing electrode ablation and heating gases to supersonic or hypersonic wind tunnel temperatures
[NASA-CASE-XAC-00319] c25 N70-41628
Electric arc heater with supersonic nozzle and fixed arc length for use in high temperature wind tunnels
[NASA-CASE-XAC-01677] c09 N71-20816
Arc electrode of graphite with tantalum ball tip
[NASA-CASE-XLE-04788] c09 N71-22987
High powered arc electrodes --- producing solar simulator radiation
[NASA-CASE-LEW-11162-1] c33 N74-12913
Electric arc light source having undercut recessed anode
[NASA-CASE-ARC-10266-1] c33 N75-29318
ELECTRIC BATTERIES
Spacecraft battery seals
[NASA-CASE-XGS-03864] c15 N69-24320
Sealed electric storage battery with gas manifold interconnecting each cell
[NASA-CASE-XNP-03378] c03 N71-11051
Battery charging system with cell to cell voltage balance
[NASA-CASE-XGS-05432] c03 N71-19438
Development and characteristics of battery charging circuits with coulometer for control of available current
[NASA-CASE-GSC-10487-1] c03 N71-24719
Heat activated emf cells with aluminum anode
[NASA-CASE-LEW-11359] c03 N71-28579
Development of device for simulating charge and discharge cycle of battery in synchronous orbit
[NASA-CASE-GSC-11211-1] c03 N72-25020
Storage battery comprising negative plates of a wedge shaped configuration --- for preventing shape change induced malfunctions
[NASA-CASE-NPO-11806-1] c44 N74-19693
Battery testing device --- for testing cells of multiple-cell battery
[NASA-CASE-MFS-20761-1] c44 N74-27519
Rapid activation and checkout device for batteries
[NASA-CASE-MFS-22749-1] c44 N76-14601
Zinc-halide battery with molten electrolyte
[NASA-CASE-NPO-11961-1] c44 N76-18643
Multi-cell battery protection system
[NASA-CASE-LEW-12039-1] c44 N76-23713
Lead-oxygen dc power supply system having a closed loop oxygen and water system
[NASA-CASE-MFS-23059-1] c44 N76-27664
ELECTRIC BRIDGES
Pulsed excitation voltage circuit for strain gage bridge transducers
[NASA-CASE-FRC-10036] c09 N72-22200
Bridge-type gain control circuit
[NASA-CASE-GSC-10786-1] c10 N72-28241
Diode-quad bridge circuit means
[NASA-CASE-ARC-10364-2(B)] c33 N74-14941
Diode-quad bridge circuit means
[NASA-CASE-ARC-10364-2] c33 N75-25041
Germanium coated microbridge and method
[NASA-CASE-MFS-23274-1] c76 N76-30084
ELECTRIC CELLS
Expanding and contracting connector strip for solar cell array of Nimbus satellite
[NASA-CASE-XGS-01395] c03 N69-21539
Design and characteristics of heat activated electric cell with anode made from one or more alkali metals and cathode made from oxidizing material
[NASA-CASE-LEW-11358] c03 N71-26084
Development and characteristics of ion-exchange membrane and electrode assembly for fuel cells or electrolysis cells
[NASA-CASE-XMS-02063] c03 N71-29044
ELECTRIC CHARGE
Indicator device for monitoring charge of wet cell battery, using semiconductor light emitter and photodetector
[NASA-CASE-NPO-10194] c03 N71-20407
Automatically charging battery of electric storage cells
[NASA-CASE-XNP-04758] c03 N71-24605
ELECTRIC CHOPPERS
Monostable multivibrator for conserving power in spacecraft systems
[NASA-CASE-GSC-10082-1] c10 N72-20221
ELECTRIC COILS
Broadband chokes and absorbers to reduce spurious radiation patterns of antenna array caused by support structures
[NASA-CASE-XMS-05303] c07 N69-27462
ELECTRIC CONDUCTORS
Hollow spherical electrode for shielding dielectric junction between high voltage conductor and insulator
[NASA-CASE-XLE-03778] c09 N69-21542
Conductor for connecting parallel cells into submodules in series to form solar cell matrix
[NASA-CASE-NPO-10821] c03 N71-19545
Electrical switching device comprising conductive liquid confined within square loop of deformable nonconductive tubing also used for leveling
[NASA-CASE-NPO-10037] c09 N71-19610
Dry electrode design with wire sandwiched between two flexible conductive discs for monitoring physiological responses
[NASA-CASE-FRC-10029] c09 N71-24618
Development of process for forming insulating layer between two electrical conductor or semiconductor materials
[NASA-CASE-LEW-10489-1] c15 N72-25047
Improved injector with porous plug for bubbles of gas into feed lines of electrically conductive liquid
[NASA-CASE-NPO-11377] c15 N73-27406
Solar cell grid patterns
[NASA-CASE-NPO-13087-2] c44 N76-31666
Velocity measurement system
[NASA-CASE-MFS-23363-1] c35 N76-33069
Shielded conductor cable system
[NASA-CASE-MSC-12745-1] c33 N77-13338
ELECTRIC CONNECTORS
Distribution of currents to circuits using electrical adaptor
[NASA-CASE-XLA-01288] c09 N69-21470
Fixture for simultaneously supporting several components for electrical testing
[NASA-CASE-XNP-06032] c09 N69-21926
Releasable coupling device designed to receive and retain matching ends of electrical connectors
[NASA-CASE-XMS-07846-1] c09 N69-21927
Electrical feedthrough connection for printed circuit boards

[NASA-CASE-XMF-01483] c14 N69-27431
Electrical connector pin with wiping action to assure reliable contact
[NASA-CASE-XMF-04238] c09 N69-39734
Rectangular electric conductors for conductor cables to withstand spacecraft vibration and controlled atmosphere
[NASA-CASE-MFS-14741] c09 N70-20737
Patent data on terminal insert connector for flat electric cables
[NASA-CASE-XMF-00324] c09 N70-34596
Electric connector for printed cable to printed cable or to printed board
[NASA-CASE-XMF-00369] c09 N70-36494
Electrical connection for printed circuits on common board, using bellows principle in rivet
[NASA-CASE-XNP-05082] c15 N70-41960
Method of making molded electric connector for use with flat conductor cables
[NASA-CASE-XMF-03498] c15 N71-15986
Design and development of electric connectors for rigid and semirigid coaxial cables
[NASA-CASE-XNP-04732] c09 N71-20851
Connector internal force gage for measuring strength of electrical connection
[NASA-CASE-XNP-03918] c14 N71-23087
Maintaining current flow through solar cells with open connection using shunting diode
[NASA-CASE-XLE-04535] c03 N71-23354
Electrical connections for thin film hybird microcircuits
[NASA-CASE-XMS-02182] c10 N71-28783
Breakaway multiwire electrical cable connector with particular application for umbilical type cables
[NASA-CASE-NPO-11140] c15 N72-17455
Reliability of electrical connectors after heat sterilization
[NASA-CASE-NPO-10694] c09 N72-20200
Development of electric connector and pin assembly with radio frequency absorbing sleeve to reduce radio frequency interference
[NASA-CASE-XLA-02609] c09 N72-25256
Electrical interconnection of unilluminated solar cells in solar battery array
[NASA-CASE-GSC-10344-1] c03 N72-27053
Separable flat cable connector with isolated electrical contacts
[NASA-CASE-MFS-20757] c09 N72-28225
Device for configuring multiple leads --- method for connecting electric leads to printed circuit board
[NASA-CASE-MFS-22133-1] c33 N74-26977
Connector --- for connecting circuits on different layers of multilayer printed circuit boards
[NASA-CASE-LAR-11709-1] c37 N76-27567
Percutaneous connector device
[NASA-CASE-KSC-10849-1] c52 N77-14738
Magnetic electrical connectors for biomedical percutaneous implants
[NASA-CASE-KSC-11030-1] c52 N77-25772

ELECTRIC CONTACTS
Solid state switching circuit design to increase current capacity of low rated relay contacts
[NASA-CASE-XNP-09228] c09 N69-27500
Characteristics of hermetically sealed electric switch with flexible operating capability
[NASA-CASE-XNP-09808] c09 N71-12518
Electrode connection for n-on-p silicon solar cell
[NASA-CASE-XLE-04787] c03 N71-20492
Development of slip ring assembly with inner and outer peripheral surfaces used as electrical contacts for brushes
[NASA-CASE-XMF-01049] c15 N71-23049
Separable flat cable connector with isolated electrical contacts
[NASA-CASE-MFS-20757] c09 N72-28225
Electrostatic measurement system --- for contact-electrifying a dielectric
[NASA-CASE-MFS-22129-1] c33 N75-18477
Liquid metal slip ring
[NASA-CASE-LEW-12277-1] c33 N76-28472
Encapsulated solar cell modules
[NASA-CASE-LEW-12185-1] c44 N77-15490
Process for preparing liquid metal electrical contact device
[NASA-CASE-LEW-11978-1] c33 N77-26385

ELECTRIC CONTROL
Switching series regulator with gating control network
[NASA-CASE-XMS-09352] c09 N71-23516
Power factor control system for ac induction motors
[NASA-CASE-MFS-23280-1] c33 N76-28471

ELECTRIC CORONA
Charge injection method and apparatus of producing large area electrets
[NASA-CASE-MFS-23186-1] c33 N76-23483

ELECTRIC CURRENT
Including didymium hydrate in nickel hydroxide of positive electrode of storage batteries to increase ampere hour capacity
[NASA-CASE-XGS-03505] c03 N71-10608
Development of in-line fuse device for protection of electric circuits from excessive currents and voltages
[NASA-CASE-MSC-12135-1] c09 N71-12526
Micromicroampere current measuring circuit, with two subminiature thermionic diodes with filament cathodes
[NASA-CASE-XNP-00384] c09 N71-13530
Connector internal force gage for measuring strength of electrical connection
[NASA-CASE-XNP-03918] c14 N71-23087
Electric circuit for producing high current pulse having fast rise and fall time
[NASA-CASE-XMS-04919] c09 N71-23270
Electric circuit for reversing direction of current flow
[NASA-CASE-XNP-00952] c10 N71-23271
Maintaining current flow through solar cells with open connection using shunting diode
[NASA-CASE-XLE-04535] c03 N71-23354
Color television system utilizing single gun current sensitive color cathode ray tube
[NASA-CASE-ERC-10098] c09 N71-28618
Current dependent variable inductance for input filter chokes of ac or dc power supplies
[NASA-CASE-ERC-10139] c09 N72-17154
Amplifying circuit with constant current source for accumulator load and high gain voltage amplification
[NASA-CASE-NPO-11023] c09 N72-17155
Commutator for steering precisely controlled bidirectional currents through numerous loads by use of magnetic core shift registers
[NASA-CASE-NPO-10743] c08 N72-21199
Current protection equipment for saturable core transformers
[NASA-CASE-ERC-10075-2] c09 N72-22196
Development of thermal to electric power conversion system using solid state switches of electrical currents to load for Seebeck effect compensation
[NASA-CASE-NPO-11388] c03 N72-23048
Load current sensor for series pulse width modulated power supply
[NASA-CASE-GSC-10656-1] c09 N72-25249
Electrode with multiple columnar conductors for limiting field emission current
[NASA-CASE-ERC-10015-2] c10 N72-27246
Means of vapor deposition using electric current and evaporator filament
[NASA-CASE-LAR-10541-1] c15 N72-32487
Lightning current measuring systems
[NASA-CASE-KSC-10807-1] c33 N75-26246
Electroexplosive device
[NASA-CASE-NPO-13858-1] c28 N77-17258
Remote lightning monitor system
[NASA-CASE-KSC-11031-1] c33 N77-21319
Lightning current waveform measuring system
[NASA-CASE-KSC-11018-1] c33 N77-21320

ELECTRIC DISCHARGES
Electric discharge apparatus for electrohydraulic explosive forming
[NASA-CASE-XMF-00375] c15 N70-34249
High voltage pulse generator for testing flash and ignition limits of nonmetallic materials in controlled atmospheres
[NASA-CASE-MSC-12178-1] c09 N71-13518
Pulse generating circuit for operation at very high duty cycles and repetition rates
[NASA-CASE-XNP-00745] c10 N71-28960
Rapidly pulsed, high intensity, incoherent light source
[NASA-CASE-XLE-2529-3] c33 N74-20859

Remote lightning monitor system
[NASA-CASE-KSC-11031-1] c33 N77-21319
Electric discharge for treatment of trace contaminants
[NASA-CASE-ARC-10975-1] c54 N77-24771

ELECTRIC ENERGY STORAGE
Electric current measuring apparatus design including saturable core transformer and energy storage device to avoid magnetizing current errors from transformer output winding
[NASA-CASE-XGS-02439] c14 N71-19431
Lead-oxygen dc power supply system having a closed loop oxygen and water system
[NASA-CASE-MFS-23059-1] c44 N76-27664
Electrically rechargeable REDOX flow cell
[NASA-CASE-LEW-12220-1] c44 N77-14581
Gels as battery separators for soluable electrode cells
[NASA-CASE-LEW-12364-1] c44 N77-22606

ELECTRIC EQUIPMENT
Characteristics of high power, low distortion, alternating current power amplifier
[NASA-CASE-LAR-10218-1] c09 N70-34559
Design and development of electric generator for space power system
[NASA-CASE-XLE-04250] c09 N71-20446
Development of electrical system for measuring high impedance
[NASA-CASE-XMS-08589-1] c09 N71-20569
Design, development, and operating principles of power supply with starting circuit which is independent of voltage regulator
[NASA-CASE-XMS-01991] c09 N71-21449
Development of method for improving signal to noise ratio and accuracy of Wheatstone bridge type radiation measuring instrument
[NASA-CASE-XLA-02810] c14 N71-25901
Design and development of buck-boost voltage regulator circuit with additive or subtractive alternating current impressed on variable direct current source voltage
[NASA-CASE-GSC-10735-1] c10 N71-26085
Development and characteristics of electronically resettable fuse with saturable core current sensing transformer having two outside legs and center leg
[NASA-CASE-XGS-11177] c09 N71-27001
Development and characteristics of voltage regulator for connection in series with alternating current source and load using three leg, two-window transformer
[NASA-CASE-ERC-10113] c09 N71-27053
Development of electric circuit for production of different pulse width signals
[NASA-CASE-XLA-07788] c09 N71-29139
Development of solar energy powered heliotrope assembly to orient solar array toward sun
[NASA-CASE-GSC-10945-1] c21 N72-31637
Development of temperature compensated light source with components and circuitry for maintaining luminous intensity independent of temperature variations
[NASA-CASE-ARC-10467-1] c09 N73-14214
Development and characteristics of hermetically sealed coaxial package for containing microwave semiconductor components
[NASA-CASE-GSC-10791-1] c15 N73-14469
Overvoltage protection network
[NASA-CASE-ARC-10197-1] c33 N74-17929
Sprag solenoid brake --- development and operations of electrically controlled brake
[NASA-CASE-MFS-21846-1] c37 N74-26976
Shock absorbing mount for electrical components
[NASA-CASE-NPO-13253-1] c37 N75-18573
Self-regulating proportionally controlled heating apparatus and technique
[NASA-CASE-GSC-11752-1] c77 N75-20140

ELECTRIC EQUIPMENT TESTS
Fixture for simultaneously supporting several components for electrical testing
[NASA-CASE-XNP-06032] c09 N69-21926
Electrical testing apparatus for detecting amplitude and width of transient pulse
[NASA-CASE-XMF-06519] c09 N71-12519
Variable water load for dissipating large amounts of electrical power during high voltage power supply tests
[NASA-CASE-XNP-05381] c09 N71-20842

ELECTRIC FIELD STRENGTH
Low impedance apparatus for measuring electrostatic field intensity near space vehicles
[NASA-CASE-XLE-00820] c14 N71-16014
Space environment simulation system for measuring spacecraft electric field strength in plasma sheath
[NASA-CASE-XLE-02038] c09 N71-16086
Device for measuring two orthogonal components of force with gallium flotation of measuring target for use in vacuum environments
[NASA-CASE-XAC-04885] c14 N71-23790
Apparatus to determine electric field strength by measuring deflection of electron beam impinging on target
[NASA-CASE-XMF-06617] c09 N71-24843

ELECTRIC FIELDS
Electric analog for measuring induced drag on nonplanar airfoils
[NASA-CASE-XLA-00755] c01 N71-13410
Electric analog for measuring induced drag on nonplanar airfoils
[NASA-CASE-XLA-05828] c01 N71-13411
Instrument for measuring potentials on two dimensional electric field plot
[NASA-CASE-XLA-08493] c10 N71-19421
Electron beam deflection devices for measuring electric fields
[NASA-CASE-XMF-10289] c14 N71-23699
Electrodes having array of small surfaces for field ionization
[NASA-CASE-ERC-10013] c09 N71-26678
Apparatus for determining distance to lighting strokes from single station by magnetic and electric field sensing antennas
[NASA-CASE-KSC-10698] c07 N73-20175
Development and characteristics of apparatus for measuring intensity of electric field in atmosphere
[NASA-CASE-KSC-10730-1] c14 N73-32318
Fine particulate capture device
[NASA-CASE-LEW-11583-1] c37 N74-13199
Electric field measuring and display system --- for cloud formations
[NASA-CASE-KSC-10731-1] c33 N74-27862
Method of electrically pre-stressing insulation to provide directional increase in dc potential breakdown
[NASA-CASE-LEW-12273-1] c33 N77-17357
Microcomputerized electric field meter diagnostic and calibration system
[NASA-CASE-KSC-11035-1] c33 N77-20343

ELECTRIC FILTERS
Describing static inverter with single or multiple phase output
[NASA-CASE-XMF-00663] c08 N71-18752
Apparatus for filtering input signals
[NASA-CASE-NPO-10198] c09 N71-24806
Active RC filter networks and amplifiers for deep space magnetic field measurement
[NASA-CASE-XAC-05462-2] c10 N72-17171
Multiloop RC active filter network with low parameter sensitivity and low amplifier gain
[NASA-CASE-ARC-10192] c09 N72-21245
Development of electric connector and pin assembly with radio frequency absorbing sleeve to reduce radio frequency interference
[NASA-CASE-XLA-02609] c09 N72-25256
Filter for third order phase locked loops in signal receivers
[NASA-CASE-NPO-11941-1] c10 N73-27171

ELECTRIC FUSES
Development of in-line fuse device for protection of electric circuits from excessive currents and voltages
[NASA-CASE-MSC-12135-1] c09 N71-12526
Single electrical circuit component combining diode, fuse, and blown indicator with elongated tube of heat resistant transparent material
[NASA-CASE-XMS-03381] c09 N71-22796

ELECTRIC GENERATORS
Regulated dc to dc converter
[NASA-CASE-XGS-03429] c03 N69-21330
Nuclear electric generator for accelerating charged propellant particles in electrostatic propulsion system
[NASA-CASE-XLE-00818] c22 N70-34248

Design and development of electric generator for space power system
[NASA-CASE-XLE-04250] c09 N71-20446
Development and characteristics of single or doubl pulse generator which produces constant width pulses in nanosecond region
[NASA-CASE-XGS-03427] c10 N71-23029
Development of slip ring assembly with inner and outer peripheral surfaces used as electrical contacts for brushes
[NASA-CASE-XMF-01049] c15 N71-23049
Conversion of positive dc voltage to positive dc voltage of lower amplitude
[NASA-CASE-XMF-14301] c09 N71-23188
High temperature ferromagnetic cobalt-base alloy for electrical power generating equipment
[NASA-CASE-XLE-03629] c17 N71-23248
Solid state integrator for converting variable width pulses into analog voltage
[NASA-CASE-XLA-03356] c10 N71-23315
Electric power system with circulatory liquid coolant cooling system
[NASA-CASE-MFS-14114-2] c09 N71-24807
Device utilizing RC rate generators for continuous slow speed measurement
[NASA-CASE-XMF-02966] c10 N71-24863
Device for voltage conversion using controlled pulse widths and arrangements to generate ac output voltage
[NASA-CASE-MFS-10068] c10 N71-25139
Multiple varactor for generating high frequencies with high power and high conversion efficiency
[NASA-CASE-XMF-04958-1] c10 N71-26414
Circuit design for failure sensing and protecting low voltage electric generator and power transmission networks
[NASA-CASE-GSC-10114-1] c10 N71-27366
Electric power system with thermionic diodes and circulatory liquid metal coolant lines
[NASA-CASE-MFS-14114] c33 N71-27862
Power converters for supplying direct current at one voltage from source at another voltage
[NASA-CASE-XER-11046] c09 N72-22203
Inductive-capacitive loops as load insensitive power converters
[NASA-CASE-ERC-10268] c09 N72-25252
Dc to ac to dc converter with transistor driven synchronous rectifiers
[NASA-CASE-GSC-11126-1] c09 N72-25253
Device for converting electromagnetic wave energy into electric power
[NASA-CASE-GSC-11394-1] c09 N73-32109
Heat operated cryogenic electrical generator
[NASA-CASE-NPO-13303-1] c20 N75-24837
Electric power generation system directory from laser power
[NASA-CASE-NPO-13308-1] c36 N75-30524
Smoke generator
[NASA-CASE-ARC-10905-1] c37 N77-13418
Electro-mechanical sine/cosine generator
[NASA-CASE-LAR-11389-1] c33 N77-26387

ELECTRIC IGNITION

Method of making solid propellant rocket motor having reliable high altitude capabilities, long shelf life, and capable of firing with nozzle closure with foamed plastic permanent mandrel
[NASA-CASE-XLA-04126] c28 N71-26779

ELECTRIC MOTORS

Automatic control of voltage supply to direct current motor
[NASA-CASE-XMS-04215-1] c09 N69-39987
Electronic circuit system for controlling electric motor speed
[NASA-CASE-XMF-01129] c09 N70-38712
Using electron beam switching for brushless motor commutation
[NASA-CASE-XGS-01451] c09 N71-10677
Direct current electromotive system for regenerative braking of electric motor
[NASA-CASE-XMF-01096] c10 N71-16030
Describing angular position and velocity sensing apparatus
[NASA-CASE-XGS-05680] c14 N71-17585
Reversible current directing circuitry for reversible motor control
[NASA-CASE-XLA-09371] c10 N71-18724
Stepping motor control apparatus exciting windings in proper time sequence to cause motor to rotate in either direction
[NASA-CASE-GSC-10366-1] c10 N71-18772
Electromagnetic braking arrangement for controlling rotor rotation in electric motor
[NASA-CASE-XNP-06936] c15 N71-24695
Electric motor control system with pulse width modulation for providing automatic null seeking servo
[NASA-CASE-XMF-05195] c10 N71-24861
Velocity limiting safety system for motor driven research vehicle
[NASA-CASE-XLA-07473] c15 N71-24895
Design and development of electric motor with stationary field and armature windings which operates on direct current
[NASA-CASE-XGS-05290] c09 N71-25999
Circuits for controlling reversible dc motor
[NASA-CASE-XNP-07477] c09 N71-26092
Pulse duration control device for driving slow response time loads in selected sequence including switching and delay circuits and magnetic storage
[NASA-CASE-XGS-04224] c10 N71-26418
Feedback control for direct current motor to achieve constant speed under varying loads
[NASA-CASE-MFS-14610] c09 N71-28886
Optimal control system for automatic speed regulation of electric driven motor vehicle
[NASA-CASE-NPO-11210] c11 N72-20244
Direct current motor including stationary field windings and stationary armature winding
[NASA-CASE-XGS-07805] c15 N72-33476
Speed control system for dc motor equipped with brushless Hall effect device
[NASA-CASE-MFS-20207-1] c09 N73-32107
A rotary electric device
[NASA-CASE-GSC-12138-1] c33 N77-20344
Three phase full wave dc motor decoder
[NASA-CASE-GSC-11824-1] c33 N77-26386

ELECTRIC NETWORKS

Electric network for monitoring temperatures, detecting critical temperatures, and indicating critical time duration
[NASA-CASE-XMF-01097] c10 N71-16058
Development and characteristics of single or doubl pulse generator which produces constant width pulses in nanosecond region
[NASA-CASE-XGS-03427] c10 N71-23029
Switching series regulator with gating control network
[NASA-CASE-XMS-09352] c09 N71-23316
Broadband frequency discriminator with resistive captive inductive networks
[NASA-CASE-NPO-10096] c07 N71-24583

ELECTRIC POTENTIAL

Battery charging system with cell to cell voltage balance
[NASA-CASE-XGS-05432] c03 N71-19438
Conversion of positive dc voltage to positive dc voltage of lower amplitude
[NASA-CASE-XMF-14301] c09 N71-23188
Solid state integrator for converting variable width pulses into analog voltage
[NASA-CASE-XLA-03356] c10 N71-23315
Device for monitoring voltage by generating signal when voltages drop below predetermined value
[NASA-CASE-KSC-10020] c10 N71-27338
Plotter device for automatically drawing equipotential lines on sheet of resistance paper
[NASA-CASE-NPO-11134] c09 N72-21246
Pulsed excitation voltage circuit for strain gage bridge transducers
[NASA-CASE-FRC-10036] c09 N72-22200
Power converters for supplying direct current at one voltage from source at another voltage
[NASA-CASE-XER-11046] c09 N72-22203
Continuously variable, voltage-controlled phase shifter
[NASA-CASE-NPO-11129] c09 N72-33204

ELECTRIC POWER

Switching circuit with regeneratively connected transistors eliminating power consumption when not in use
[NASA-CASE-XNP-02654] c10 N70-42032
Variable water load for dissipating large amounts of electrical power during high

voltage power supply tests
[NASA-CASE-XNP-05381] c09 N71-20842
ELECTRIC POWER PLANTS
Ocean thermal plant
[NASA-CASE-KSC-11034-1] c44 N77-21666
ELECTRIC POWER SUPPLIES
Current dependent variable inductance for input filter chokes of ac or dc power supplies
[NASA-CASE-ERC-10139] c09 N72-17154
Development of thermal to electric power conversion system using solid state switches of electrical currents to load for Seebeck effect compensation
[NASA-CASE-NPO-11388] c03 N72-23048
Development of electrical circuit for suppressing oscillations across inductor operating in resonant mode
[NASA-CASE-ERC-10403-1] c10 N73-26228
Powerplexer for distribution of dc power levels to loads which require different voltages
[NASA-CASE-MSC-12396-1] c03 N73-31988
Reliable electrical element heater using plural wire system and backup power sources
[NASA-CASE-MFS-21462-1] c33 N74-14935
ELECTRIC POWER TRANSMISSION
Power switch with transfluxor type magnetic core
[NASA-CASE-NPO-10242] c09 N71-24803
Circuit design for failure sensing and protecting low voltage electric generator and power transmission networks
[NASA-CASE-GSC-10114-1] c10 N71-27366
Powerplexer for distribution of dc power levels to loads which require different voltages
[NASA-CASE-MSC-12396-1] c03 N73-31988
Microwave power transmission system wherein level of transmitted power is controlled by reflections from receiver
[NASA-CASE-MFS-21470-1] c44 N74-19870
RF beam center location method and apparatus for power transmission system
[NASA-CASE-NPO-13821-1] c44 N76-26692
ELECTRIC PROPULSION
Electric propulsion engine test chamber
[NASA-CASE-XLE-00252] c11 N70-34844
ELECTRIC PULSES
RC transistor circuit to indicate each pulse of pulse train and occurrence of nth pulse
[NASA-CASE-XNP-00906] c09 N70-41655
Design and development of variable pulse width multiplier
[NASA-CASE-XLA-02850] c09 N71-20447
Piezoelectric transducer for monitoring sound waves of physiological origin
[NASA-CASE-XMS-05365] c14 N71-22993
Development and characteristics of single or doubl pulse generator which produces constant width pulses in nanosecond region
[NASA-CASE-XGS-03427] c10 N71-23029
Solid state integrator for converting variable width pulses into analog voltage
[NASA-CASE-XLA-03356] c10 N71-23315
Development and characteristics of electric circuitry for detecting electrical pulses rise time and amplitude
[NASA-CASE-XNP-08804] c09 N71-24717
Circuit for measuring wide range of pulse rates by utilizing high capacity counter
[NASA-CASE-XNP-06234] c10 N71-27137
Precision full wave rectifier circuit for rectifying incoming electrical signals having positive or negative polarity with only positive output signals
[NASA-CASE-ARC-10101-1] c09 N71-33109
Phase modulating with odd and even finite power series of a modulating signal
[NASA-CASE-LAR-11607-1] c32 N77-14292
ELECTRIC RELAYS
Spark gap type protective circuit for fast sensing and removal of overvoltage conditions
[NASA-CASE-XAC-08981] c09 N69-39897
Time division multiplexer with magnetic latching relays
[NASA-CASE-XNP-00431] c09 N70-38998
Alarm system design for monitoring one or more relay circuits
[NASA-CASE-XMS-10984-1] c10 N71-19417
Time division relay synchronizer with master sync pulse for activating binary counter to produce signal identifying time slot for station
[NASA-CASE-GSC-10373-1] c07 N71-19773
Relay circuit breaker with magnetic latching to provide conductive and nonconductive paths for current devices
[NASA-CASE-MSC-11277] c09 N71-29008
ELECTRIC ROCKET ENGINES
Electric rocket engine with electron bombardment ionization chamber
[NASA-CASE-XNP-04124] c28 N71-21822
ELECTRIC SWITCHES
Thermionic diode switch for use in high temperature region to chop current from dc source
[NASA-CASE-NPO-10404] c03 N71-12255
Characteristics of hermetically sealed electric switch with flexible operating capability
[NASA-CASE-XNP-09808] c09 N71-12518
Electrical switching device comprising conductive liquid confined within square loop of deformable nonconductive tubing also used for leveling
[NASA-CASE-NPO-10037] c09 N71-19610
System for checking status of several double-throw switches by readout indications
[NASA-CASE-XLA-08799] c10 N71-27272
Pulse generating circuit for operation at very high duty cycles and repetition rates
[NASA-CASE-XNP-00745] c10 N71-28960
High dc switch for causing abrupt, cyclic, decreases of current to operate under zero or varying gravity conditions
[NASA-CASE-LEW-10155-1] c09 N71-29035
Zero power telemetry actuated switch for biomedical equipment
[NASA-CASE-ARC-10105] c09 N72-17153
Development of differential pressure control system using motion of mechanical diaphragms to operate electric switch
[NASA-CASE-MFS-14216] c14 N73-13418
Dual mode solid state power switch
[NASA-CASE-MFS-22880-1] c33 N76-31410
Very narrow band width receiver
[NASA-CASE-GSC-12142-1] c32 N77-20299
ELECTRIC TERMINALS
Electrical connector pin with wiping action to assure reliable contact
[NASA-CASE-XNP-04238] c09 N69-39734
Patent data on terminal insert connector for flat electric cables
[NASA-CASE-XNP-00324] c09 N70-34596
Tool attachment for spreading or moving away loose elements from terminal posts during winding of filamentary elements
[NASA-CASE-XNP-02107] c15 N71-10809
Electrical spot terminal assembly for printed circuit boards
[NASA-CASE-NPO-10034] c15 N71-17685
Device for resistance soldering electrical leads to solder cups of multiple terminal block
[NASA-CASE-GSC-10913] c15 N72-22491
Development of electric connector and pin assembly with radio frequency absorbing sleeve to reduce radio frequency interference
[NASA-CASE-XLA-02609] c09 N72-25256
Device for configuring multiple leads --- method for connecting electric leads to printed circuit board
[NASA-CASE-MFS-22133-1] c33 N74-26977
ELECTRIC WELDING
Development of electric weeding torch with casing on one end to form inert gas shield
[NASA-CASE-XNP-02330] c15 N71-23798
Electric resistance spot welding and brazing for producing metal bonds with superior mechanical and structural characteristics
[NASA-CASE-LAR-11072-1] c15 N73-20535
Process for welding compressor and turbine blades to rotors and discs of jet engines
[NASA-CASE-LEW-10533-1] c15 N73-28515
ELECTRIC WIRE
Apparatus for forming wire grids for electric strain gages
[NASA-CASE-XLE-00023] c15 N70-33330
Control of fusion welding through use of thermocouple wire
[NASA-CASE-MFS-06074] c15 N71-20393
Ablation sensor for measuring char layer recession rate using electric wires
[NASA-CASE-XLA-01794] c33 N71-21586

Device for resistance soldering electrical leads to solder cups of multiple terminal block
[NASA-CASE-GSC-10913] c15 N72-22491
Lead attachment for high temperature operation of electronic devices
[NASA-CASE-ERC-10224] c09 N72-25261
Means for accommodating large overstrain in lead wires --- by storing extra length of wire in stretchable loop
[NASA-CASE-LAR-10168-1] c33 N74-22865
Device for configuring multiple leads --- method for connecting electric leads to printed circuit board
[NASA-CASE-MFS-22133-1] c33 N74-26977
High current electrical lead --- for thermionic converters
[NASA-CASE-LEW-10950-1] c33 N74-27683

ELECTRICAL ENGINEERING
Counter-divider circuit for accuracy and reliability in binary circuits
[NASA-CASE-XNP-00421] c09 N70-34502
Vibrating element electrometer producing high conversion gain by input current control of elements resonant frequency displacement amplitude
[NASA-CASE-XAC-02807] c09 N71-23021

ELECTRICAL FAULTS
Overcurrent protecting circuit for push-pull transistor amplifiers
[NASA-CASE-MSC-12033-1] c09 N71-13531
Circuit design for failure sensing and protecting low voltage electric generator and power transmission networks
[NASA-CASE-GSC-10114-1] c10 N71-27366
Test method and equipment for identifying faulty cells or connections in solar cell assemblies
[NASA-CASE-NPO-10401] c03 N72-20033
Shared memory for a fault-tolerant computer
[NASA-CASE-NPO-13139-1] c60 N76-21914
Hearing aid malfunction detection system
[NASA-CASE-MSC-14916-1] c33 N77-13335
Cable fault locator
[NASA-CASE-KSC-10899-1] c33 N77-28394

ELECTRICAL IMPEDANCE
High voltage transistor circuit
[NASA-CASE-XNP-06937] c09 N71-19516
Development of electrical system for measuring high impedance
[NASA-CASE-XMS-08589-1] c09 N71-20569
Signaling summary alarm circuit with semiconductor switch for faulty contact indications
[NASA-CASE-XLE-03061-1] c10 N71-24798
Signal conditioning circuit apparatus --- with constant input impedance
[NASA-CASE-ARC-10348-1] c33 N75-19518
Readout electrode assembly for measuring biological impedance
[NASA-CASE-ARC-10816-1] c35 N76-24525
Solid-state current transformer
[NASA-CASE-MFS-22560-1] c33 N77-14335

ELECTRICAL INSULATION
Water cooled solenoid capable of producing magnetic field intensities up to 100 kilogauss
[NASA-CASE-XNP-01951] c09 N70-41929
Method and apparatus for removing plastic insulation from wire using cryogenic equipment
[NASA-CASE-MFS-10340] c15 N71-17628
Nonconductive tube as feed system for plasma thrustor
[NASA-CASE-XLE-02902] c25 N71-21694
Internal labyrinth and shield structure to improve electrical isolation of propellant feed source from ion thrustor
[NASA-CASE-LEW-10210-1] c28 N71-26781
Development of process for forming insulating layer between two electrical conductor or semiconductor materials
[NASA-CASE-LEW-10489-1] c15 N72-25447
Bio-isolated dc operational amplifier --- for bioelectric measurements
[NASA-CASE-ARC-10596-1] c33 N74-21851
Stored charge transistor
[NASA-CASE-NPO-11156-2] c33 N75-31331
Method of making an insulation foil
[NASA-CASE-LEW-11484-1] c24 N75-33181
Method of electrically pre-stressing insulation to provide directional increase in dc potential breakdown
[NASA-CASE-LEW-12273-1] c33 N77-17357

ELECTRICAL MEASUREMENT
Capacitance measuring device for determining flare accuracy on tapered tubes
[NASA-CASE-XKS-03495] c14 N69-39785
Bootstrap unloading circuits for sampling transducer voltage sources without drawing current
[NASA-CASE-XNP-09768] c09 N71-12516
Micromicroampere current measuring circuit, with two subminiature thermionic diodes with filament cathodes
[NASA-CASE-XNP-00384] c09 N71-13530
Low impedance apparatus for measuring electrostatic field intensity near space vehicles
[NASA-CASE-XLE-00820] c14 N71-16014
Electric current measuring apparatus design including saturable core transformer and energy storage device to avoid magnetizing current errors from transformer output winding
[NASA-CASE-XGS-02439] c14 N71-19431
High voltage divider system for attenuating high voltages to convenient levels suitable for introduction to measuring circuits
[NASA-CASE-XLE-02008] c09 N71-21583
Ablation sensor for measuring char layer recession rate using electric wires
[NASA-CASE-XLA-01794] c33 N71-21586
Current measurement by use of Hall effect generator
[NASA-CASE-XAC-01662] c14 N71-23037
Connector internal force gage for measuring strength of electrical connection
[NASA-CASE-XNP-03918] c14 N71-23087
Voltage range selection apparatus for sensing and applying voltages to electronic instruments without loading signal source
[NASA-CASE-XMS-06497] c14 N71-26244
Lightning current measuring systems
[NASA-CASE-KSC-10807-1] c33 N75-26246
Rapid activation and checkout device for batteries
[NASA-CASE-MFS-22749-1] c44 N76-14601
Electrical conductivity cell and method for fabricating the same
[NASA-CASE-ARC-10810-1] c33 N76-19339
Trielectrode capacitive pressure transducer
[NASA-CASE-ARC-10711-2] c33 N76-21390
Readout electrode assembly for measuring biological impedance
[NASA-CASE-ARC-10816-1] c35 N76-24525

ELECTRICAL PROPERTIES
Voltage drift compensation circuit for analog-to-digital converter
[NASA-CASE-XNP-04780] c08 N71-19687
Development and characteristics of electronically resettable fuse with saturable core current sensing transformer having two outside legs and center leg
[NASA-CASE-XGS-11177] c09 N71-27001
Development and characteristics of voltage regulator for connection in series with alternating current source and load using three leg, two-window transformer
[NASA-CASE-ERC-10113] c09 N71-27053
Development of system with electrical properties which vary with changes in temperature for use with feedback loop in operational amplifier circuit
[NASA-CASE-MSC-13276-1] c14 N71-27058
Electrically coupled individually encapsulated solar cell matrix
[NASA-CASE-NPO-11190] c03 N71-34044
Storage battery comprising negative plates of a wedge shaped configuration --- for preventing shape change induced malfunctions
[NASA-CASE-NPO-11806-1] c44 N74-19693
Thermocouple tape --- developed from thermoelectrically different metals
[NASA-CASE-LEW-11072-2] c35 N76-15434

ELECTRICAL RESISTANCE
Development of electrical system for indicating optimum contact between electrode and metal surface to permit improved soldering operation
[NASA-CASE-KSC-10242] c15 N72-23497
Radio frequency source resistance measuring instruments of varied design
[NASA-CASE-NPO-11291-1] c14 N73-30388

ELECTRICAL RESISTIVITY
- Describing method for vapor deposition of gallium arsenide films tc manganese substrates to provide semiconductor devices with low resistance substrates [NASA-CASE-XNP-01328] c26 N71-18064
- Simulating operation of thermopile vacuum gage tube at high and low pressures [NASA-CASE-XLA-02758] c14 N71-18481
- Electrically conductive fluorocarbon polymers [NASA-CASE-XLE-06774-2] c06 N72-25150
- Lightweight electrically powered flexible thermal laminate --- made of metal fibers [NASA-CASE-MSC-12662-1] c24 N75-16635
- Electrical conductivity cell and methcd for fabricating the same [NASA-CASE-ARC-10810-1] c33 N76-19339

ELECTRICITY
- Thermionic ccnverter for converting heat energy directly into electrical energy [NASA-CASE-XLE-01903] c22 N71-23599

ELECTRO-OPTICS
- Electro-optical system with scan-in illuminator and scan-out photosensor for scanning variable transmittance objects [NASA-CASE-NPO-11106] c14 N70-34697
- Electro-optical system for maintaining two-axis alignment during milling operations on large tank-sections [NASA-CASE-XMF-00908] c14 N70-40238
- Automatic polarimeter capable of measuring transient birefringence changes in electro-optic materials [NASA-CASE-XNP-08883] c23 N71-16101
- Design and development cf light sensing device for controlling orientation of object relative to sun or other light source [NASA-CASE-NPO-11201] c14 N72-27409
- Electro-optical stabilization of calibrated light source [NASA-CASE-MSC-12293-1] c14 N72-27411
- Optical ccnversion method [NASA-CASE-MSC-12618-1] c74 N76-18917

ELECTROACOUSTIC TRANSDUCERS
- Transducer for monitoring oxygen flow in respirator [NASA-CASE-PRC-10012] c14 N72-17329
- Material suspension within an acoustically excited resonant chamber --- at near weightless conditions [NASA-CASE-NPO-13263-1] c12 N75-24774

ELECTROACOUSTIC WAVES
- Phonocardiogram simulatcr producing electrical voltage waves to contrcl amplitude and duration between simulated sounds [NASA-CASE-XMS-10804] c05 N71-24606

ELECTROCARDIOGRAPHY
- Phonocardiogram simulator producing electrical voltage waves to control amplitude and duration between simulated sounds [NASA-CASE-XMS-10804] c05 N71-24606
- Development of instantaneous reading tachometer for measuring electrocardiogram signal rate [NASA-CASE-MFS-20418] c14 N73-24473
- Insulated electrocardiographic electrodes --- without paste electrolyte [NASA-CASE-MSC-14339-1] c05 N75-24716
- EKG and ultrasonoscope display [NASA-CASE-ARC-10994-2] c52 N77-15619

ELECTROCHEMICAL CELLS
- Apparatus for measuring polymer membrane expansion in electrochemical cells [NASA-CASE-XGS-03865] c14 N69-21363
- Preventing pressure buildup in electrochemical cells by reacting palladium oxide with evolved hydrogen [NASA-CASE-XGS-01419] c03 N70-41864
- Nonmagnetic hermetically sealed battery case made of epoxy resin and woven glass tape for use with electrochemical cells in spacecraft [NASA-CASE-XGS-00886] c03 N71-11053
- Epoxy resin sealing device for electrochemical cells in high vacuum environments [NASA-CASE-XGS-02630] c03 N71-22974
- Sealed electrochemical cell with flexible casing for varying electrolyte level in cell [NASA-CASE-XGS-01513] c03 N71-23336
- Elimination of two step voltage discharge property of silver zinc batteries by using divalent silver oxide capacity of cell to charge anodes to monovalent silver state [NASA-CASE-XGS-01674] c03 N71-29129
- Flexible, frangible electrochemical cell and package for operation in low temperature environment [NASA-CASE-XGS-10010] c03 N72-15986
- Porous electrode for use in electrochemical cells [NASA-CASE-GSC-11368-1] c09 N73-32108
- Battery testing device --- for testing cells of multiple-cell battery [NASA-CASE-MFS-20761-1] c44 N74-27519
- Electrical conductivity cell and method for fabricating the same [NASA-CASE-ARC-10810-1] c33 N76-19339
- Device for the detection of phenol and related compounds --- in an electrochemical cell [NASA-CASE-LEW-12513-1] c25 N77-18238

ELECTROCHEMICAL OXIDATION
- Device for the detection of phenol and related compounds --- in an electrochemical cell [NASA-CASE-LEW-12513-1] c25 N77-18238

ELECTROCHEMISTRY
- Electrochemically reversible silver-silver chloride electrode for detecting bioelectric potential differences generated by human muscles and organs [NASA-CASE-XMS-02872] c05 N69-21925

ELECTRODE FILM BARRIERS
- Formulated plastic separators for soluble electrode cells --- rubber-ion trasport sheeting [NASA-CASE-LEW-12358-1] c44 N77-18560

ELECTRODEPOSITION
- Binding layer of semiconductor particles by electrodeposition [NASA-CASE-XNP-01959] c26 N71-23043
- Electrodeposition method for producing crystalline material from dense gaseous medium [NASA-CASE-NPO-10440] c15 N72-21466
- Electrophoretic sample insertion --- device for uniformly distributing samples in flow path [NASA-CASE-MFS-21395-1] c25 N74-26948
- Multitarget sequential sputtering apparatus [NASA-CASE-NPO-13345-1] c37 N75-19684
- Device for the detection of phenol and related compounds --- in an electrochemical cell [NASA-CASE-LEW-12513-1] c25 N77-18238

ELECTRODES
- Hollow spherical electrode for shielding dielectric junction between high voltage conductor and insulator [NASA-CASE-XLE-03778] c09 N69-21542
- Electrochemically reversible silver-silver chloride electrode for detecting bioelectric potential differences generated by human muscles and organs [NASA-CASE-XMS-02872] c05 N69-21925
- Bonding method for improving contact between lead telluride thermoelectric elements and tungsten electrodes [NASA-CASE-XGS-04554] c15 N69-39786
- Ionization vacuum gage [NASA-CASE-XNP-00646] c14 N70-35666
- Accel and focus electrode design for ion engine with improved efficiency [NASA-CASE-XNP-02839] c28 N70-41922
- Including didymium hydrate in nickel hydroxide of positive electrode of storage batteries to increase ampere hour capacity [NASA-CASE-XGS-03505] c03 N71-10608
- Apertured electrode focusing system for ion sources with nonuniform plasma density [NASA-CASE-XNP-03332] c09 N71-10618
- Electromedical garment, applying vectorcardiologic type electrodes to human torsos for data recording during physical activity [NASA-CASE-XFR-10856] c05 N71-11189
- Electrode attached to helmets for detecting low level signals from skin of living creatures [NASA-CASE-ARC-10043-1] c05 N71-11193
- Characteristics of pressed disc electrode for biological measurements [NASA-CASE-XMS-04212-1] c05 N71-12346
- Electrode connection for n-on-p silicon solar cell [NASA-CASE-XLE-04787] c03 N71-20492
- Arc electrode of graphite with tantalum ball tip [NASA-CASE-XLE-04788] c09 N71-22987

Electrode sealing and insulation for fuel cells containing caustic liquid electrolytes using powdered plastic and metal
[NASA-CASE-XMS-01625] c15 N71-23022
Automatic recording McLeod gage with three electrodes and solenoid valve connection
[NASA-CASE-XLE-03280] c14 N71-23093
Dry electrode design with wire sandwiched between two flexible conductive discs for monitoring physiological responses
[NASA-CASE-ERC-10029] c09 N71-24618
Development and characteristics of electrodes in which poisoning by organic molecules is prevented by ion selective electrolytic deposition of hydrophilic protein colloid
[NASA-CASE-XMS-04213-1] c09 N71-26002
Adhesive spray process for attaching biomedical skin electrodes
[NASA-CASE-XFR-07658-1] c05 N71-26293
Electrodes having array of small surfaces for field ionization
[NASA-CASE-ERC-10013] c09 N71-26678
Manufacturing process for making perspiration resistant-stress resistant biopotential electrode
[NASA-CASE-MSC-90153-2] c05 N72-25120
Dry electrode manufacture, using silver powder with cement
[NASA-CASE-ERC-10029-2] c05 N72-25121
Compressible electrolyte saturated sponge electrode for biomedical applications
[NASA-CASE-MSC-13648] c05 N72-27103
Electrode with multiple columnar conductors for limiting field emission current
[NASA-CASE-ERC-10015-2] c10 N72-27246
Coaxial, high density, hypervelocity plasma generator and accelerator using electrodes
[NASA-CASE-MFS-20589] c25 N72-32688
Characteristics of ion rocket engine with combination keeper electrode and electron baffle
[NASA-CASE-NPO-11880] c28 N73-24783
Silicon carbide backward diode with coated lead attachment
[NASA-CASE-ERC-10224-2] c09 N73-27150
Porous electrode for use in electrochemical cells
[NASA-CASE-GSC-11368-1] c09 N73-32108
High powered arc electrodes --- producing solar simulator radiation
[NASA-CASE-LEW-11162-1] c33 N74-12913
Method of making porous conductive supports for electrodes --- by electroforming and stacking nickel foils
[NASA-CASE-GSC-11367-1] c44 N74-19692
Insulated electrocardiographic electrodes --- without paste electrolyte
[NASA-CASE-MSC-14339-1] c05 N75-24716
Readout electrode assembly for measuring biological impedance
[NASA-CASE-ARC-10816-1] c35 N76-24525
Gels as battery separators for soluable electrode cells
[NASA-CASE-LEW-12364-1] c44 N77-22606
Snap-in compressible biomedical electrode
[NASA-CASE-MSC-14623-1] c52 N77-28717

ELECTROFORMING
Method of electroforming a rocket chamber
[NASA-CASE-LEW-11118-1] c20 N74-32919

ELECTROHYDRAULIC FORMING
Electric discharge apparatus for electrohydraulic explosive forming
[NASA-CASE-XNF-00375] c15 N70-34249

ELECTROHYDRODYNAMICS
Control valve for switching main stream of fluid from one stable position to another by means of electrohydrodynamic forces
[NASA-CASE-NPO-10416] c12 N71-27332

ELECTROKINETICS
Zeta potential flowmeter for measuring very slow to very high flows
[NASA-CASE-XNP-06509] c14 N71-23226

ELECTROLYSIS
Water electrolysis rocket engine with self-regulating stoichiometric fuel mixing regulator
[NASA-CASE-XGS-08729] c28 N71-14044
Operation method for combined electrolysis device and fuel cell using molten salt to produce power by thermoelectric regeneration mechanism
[NASA-CASE-XLF-01645] c03 N71-20904

ELECTROLYTES
Apparatus for measuring polymer membrane expansion in electrochemical cells
[NASA-CASE-XGS-03865] c14 N69-21363
Electrolytically regenerative hydrogen-oxygen fuel cells
[NASA-CASE-XLE-04526] c03 N71-11052
Sealed electrochemical cell with flexible casing for varying electrolyte level in cell
[NASA-CASE-XGS-01513] c03 N71-23336
Compressible electrolyte saturated sponge electrode for biomedical applications
[NASA-CASE-MSC-13648] c05 N72-27103

ELECTROLYTIC CELLS
Heat activated cell with aluminum anode
[NASA-CASE-LEW-11359-2] c03 N72-20034
Actuator operated by electrolytic drive gas generator and evacuator
[NASA-CASE-NPO-11369] c15 N73-13467
Electrolytic cell structure
[NASA-CASE-LAR-11042-1] c33 N75-27252
Reconstituted asbestos matrix --- for use in fuel or electrolysis cells
[NASA-CASE-MSC-12568-1] c24 N76-14204
Multi-cell battery protection system
[NASA-CASE-LEW-12039-1] c44 N76-23713
Polymeric electrolytic hygrometer
[NASA-CASE-NPO-13948-1] c35 N77-28470

ELECTROMAGNETIC ABSORPTION
Optical imaging system for increasing light absorption efficiency of imaging detector
[NASA-CASE-ARC-10194-1] c23 N73-20741
Method and apparatus for background signal reduction in opto-acoustic absorption measurement
[NASA-CASE-NPO-13683-1] c35 N77-14411

ELECTROMAGNETIC FIELDS
Tumbling motion system for object demagnetization
[NASA-CASE-XGS-02437] c15 N69-21472
Device for high vacuum film deposition with electromagnetic ion steering
[NASA-CASE-NPO-10331] c09 N71-26701
Metal detection system with electromagnetic transmitter with single coil and receiver with single coil
[NASA-CASE-ARC-10265-1] c10 N72-28240
Low power electromagnetic flowmeter system producing zero output signal for zero flow
[NASA-CASE-ARC-10362-1] c14 N73-32326
Electromagnetic flow rate meter --- for liquid metals
[NASA-CASE-LEW-10981-1] c35 N74-21018

ELECTROMAGNETIC HAMMERS
Method and apparatus for shaping and joining large diameter metal tubes using magnetomotive forces
[NASA-CASE-XNF-05114] c15 N71-17650
Portable magnetomotive hammer for metal working
[NASA-CASE-XNF-03793] c15 N71-24833

ELECTROMAGNETIC INTERFERENCE
Sealed housing for protecting electronic equipment against electromagnetic interference
[NASA-CASE-MSC-12168-1] c09 N71-18600
Method of treating the surface of a glass member
[NASA-CASE-GSC-12110-1] c27 N77-32308

ELECTROMAGNETIC MEASUREMENT
Apparatus for measuring backscatter and transmission characteristics of sample segment of large spherical passive satellites
[NASA-CASE-XGS-02608] c07 N70-41678
Microcomputerized electric field meter diagnostic and calibration system
[NASA-CASE-KSC-11035-1] c33 N77-20343

ELECTROMAGNETIC NOISE
Development of idler feedback system to reduce electronic noise problem in two parametric amplifiers
[NASA-CASE-LAR-10253-1] c09 N72-25258
Audio equipment for removing impulse noise from audio signals
[NASA-CASE-NPO-11631] c10 N73-12244
Filtering device --- removing electromagnetic noise from voice communication signals
[NASA-CASE-MFS-22729-1] c32 N76-21366

ELECTROMAGNETIC PUMPS
Multiducted electromagnetic pump for conductive liquids
[NASA-CASE-NPO-10755] c15 N71-27084

ELECTROMAGNETIC RADIATION
Inflatable radar reflector unit - lightweight, highly reflective to electromagnetic radiation, and adaptable for erection and deployment with minimum effort and time
[NASA-CASE-MMS-00893] c07 N70-40063
Development of electromagnetic wave transmission line circulator and application to parametric amplifier circuits
[NASA-CASE-XNP-02140] c09 N71-23097
Left and right hand circular electromagnetic polarization excitation by phase shifter and hybrid networks
[NASA-CASE-GSC-10021-1] c09 N71-24595
Development of method for suppressing excitation of electromagnetic surface waves on dielectric converter antenna
[NASA-CASE-XLA-10772] c07 N71-28980
Characteristics of microwave antenna with conical reflectors to generate plane wave front
[NASA-CASE-NPO-11661] c07 N73-14130
Method and apparatus for measuring electromagnetic radiation
[NASA-CASE-LEW-11159-1] c14 N73-28488
Nonequilibrium radiation nuclear reactor
[NASA-CASE-HQN-10841-1] c73 N75-22108
ELECTROMAGNETIC SHIELDING
Shielded flat conductor cable fabricated by electroless and electrolytic plating
[NASA-CASE-MFS-13687] c09 N71-28691
ELECTROMAGNETIC WAVE FILTERS
Design and characteristics of laser camera system with diffusion filter of small particles with average diameter larger than wavelength of laser light
[NASA-CASE-NPO-10417] c16 N71-33410
ELECTROMAGNETIC WAVE TRANSMISSION
Apparatus for measuring backscatter and transmission characteristics of sample segment of large spherical passive satellites
[NASA-CASE-XGS-02608] c07 N70-41678
ELECTROMAGNETISM
Electromagnetic braking arrangement for controlling rotor rotation in electric motor
[NASA-CASE-XNP-06936] c15 N71-24695
ELECTROMAGNETS
Oscillatory electromagnetic mirror drive system for horizon scanners
[NASA-CASE-XLA-03724] c14 N69-27461
Water cooled solenoid capable of producing magnetic field intensities up to 100 kilogauss
[NASA-CASE-XNP-01951] c09 N70-41929
Magnetic element position sensing device, using misaligned electromagnets
[NASA-CASE-XGS-07514] c23 N71-16099
Electroexplosive safe-arm initiator using electric driven electromagnetic coils and magnets to align charge
[NASA-CASE-LAR-10372] c09 N71-18599
Magnetic bearing --- for supplying magnetic fluxes
[NASA-CASE-GSC-11079-1] c37 N75-18574
ELECTROMECHANICAL DEVICES
Electromechanical actuator and its use in rocket thrust control valve
[NASA-CASE-XNP-05975] c15 N69-23185
Power controlled bimetallic electromechanical actuator for accurate, timely, and reliable response to remote control signal
[NASA-CASE-XNP-09776] c09 N69-39929
Electro-mechanical circuit for converting floating intelligence signal to common electrically grounded intelligence recorder
[NASA-CASE-XAC-00086] c09 N70-33182
Describing device for velocity control of electromechanical drive mechanism of scanning mirror of interferometer
[NASA-CASE-XGS-03532] c14 N71-17627
Mechanical actuator wherein linear motion changes to rotational motion
[NASA-CASE-XGS-04548] c15 N71-24045
Solid state force measuring electromechanical transducers made of piezoresistive materials
[NASA-CASE-ERC-10088] c26 N71-25490
Electromechanical control actuator system using double differential screws
[NASA-CASE-ERC-10022] c15 N71-26635
Miniature electromechanical junction transducer operating on piezojunction effect and utilizing epoxy for stress coupling component
[NASA-CASE-ERC-10087] c14 N71-27534
Service life of electromechanical device for generating sine/cosine functions
[NASA-CASE-LAR-10503-1] c09 N72-21248
Electromechanical actuator for producing mechanical force and/or motion in response to electrical signals
[NASA-CASE-NPO-11738-1] c09 N73-30185
A rotary electric device
[NASA-CASE-GSC-12138-1] c33 N77-20344
Electro-mechanical sine/cosine generator
[NASA-CASE-LAR-11389-1] c33 N77-26387
ELECTROMETERS
Vibrating element electrometer producing high conversion gain by input current control of elements resonant frequency displacement amplitude
[NASA-CASE-XAC-02807] c09 N71-23021
ELECTROMOTIVE FORCES
Heat activated emf cells with aluminum anode
[NASA-CASE-LEW-11359] c03 N71-28579
ELECTRON BEAM WELDING
Portable electron beam welding chamber
[NASA-CASE-LEW-11531] c15 N71-14932
Development of device to prevent high voltage arcing in electron beam welding
[NASA-CASE-XMF-08522] c15 N71-19486
ELECTRON BEAMS
Using electron beam switching for brushless motor commutation
[NASA-CASE-XGS-01451] c09 N71-10677
Electron beam scanning system for improved image definition and reduced power requirements for video signal transmission
[NASA-CASE-ERC-10552] c09 N71-12539
Electron beam deflection devices for measuring electric fields
[NASA-CASE-XMF-10289] c14 N71-23699
Apparatus to determine electric field strength by measuring deflection of electron beam impinging on target
[NASA-CASE-XMF-06617] c09 N71-24843
Characteristics of infrared photodetectors manufactured from semiconductor material irradiated by electron beam
[NASA-CASE-LAR-10728-1] c14 N73-12445
Electron beam controller --- using magnetic field to refocus spent electron beam in microwave oscillator tube
[NASA-CASE-LEW-11617-1] c33 N74-10195
Image tube --- deriving electron beam replica of image
[NASA-CASE-GSC-11602-1] c33 N74-21850
Very high intensity light source using a cathode ray tube --- electron beams
[NASA-CASE-XNP-01296] c33 N75-27250
ELECTRON BOMBARDMENT
Improved cathode containing barium carbonate block and heated tungsten screen for electron bombardment ion thrustor
[NASA-CASE-XLE-07087] c06 N69-39889
Device and method for particle bombardment of specimens in electron microscope and measurement of beam intensities
[NASA-CASE-XGS-01725] c14 N69-39982
Electric rocket engine with electron bombardment ionization chamber
[NASA-CASE-XNP-04124] c28 N71-21822
Electronic cathodes for use in electron bombardment ion thrustors
[NASA-CASE-XLE-04501] c09 N71-23190
Single grid accelerator system for electron bombardment type ion thrustor
[NASA-CASE-XLE-10453-2] c28 N73-27699
ELECTRON DISTRIBUTION
Measurement of plasma temperature and density using radiation absorption
[NASA-CASE-ARC-10598-1] c75 N74-30156
ELECTRON EMISSION
Vacuum thermionic converter with short-circuited triodes and increased electron transmission and conversion efficiency
[NASA-CASE-XLE-01015] c03 N69-39898
ELECTRON FLUX DENSITY
Device and method for particle bombardment of specimens in electron microscope and measurement of beam intensities
[NASA-CASE-XGS-01725] c14 N69-39982

ELECTRON IRRADIATION
Electrostatic ion engines using high velocity electrons to ionize propellant
[NASA-CASE-XLE-00376] c28 N70-37245
ELECTRON MICROSCOPES
Device and method for particle bombardment of specimens in electron microscope and measurement of beam intensities
[NASA-CASE-XGS-01725] c14 N69-39982
Method of forming aperture plate for electron microscope
[NASA-CASE-ARC-10448-2] c74 N75-12732
Electron microscope aperture system
[NASA-CASE-ARC-10448-3] c35 N77-14408
ELECTRON PHOTON CASCADES
Resistive anode image converter
[NASA-CASE-HQN-10876-1] c33 N76-27473
ELECTRON PLASMA
Apparatus for producing highly conductive, high temperature electron plasma with homogenous temperature and pressure distribution
[NASA-CASE-XLA-00147] c25 N70-34661
ELECTRON SOURCES
Electron microscope aperture system
[NASA-CASE-ARC-10448-3] c35 N77-14408
ELECTRON TRANSFER
Method for treating metal surfaces to prevent secondary electron transmission
[NASA-CASE-XNP-09469] c24 N71-25555
ELECTRON TRANSITIONS
Diatomic infrared gasdynamic laser --- for producing different wavelengths
[NASA-CASE-ARC-10370-1] c36 N75-31426
ELECTRON TUBES
Direct radiation cooling of linear beam collector tubes
[NASA-CASE-XNP-09227] c15 N69-24319
Refractory filament series circuitry for radiant heater
[NASA-CASE-XLE-00387] c33 N70-34812
ELECTRON TUNNELING
Doped Josephson tunneling junction for use in a sensitive IR detector
[NASA-CASE-NPO-13348-1] c33 N75-31332
ELECTRONIC CONTROL
Electronic and mechanical scanning control system for monopulse tracking antenna
[NASA-CASE-XGS-05582] c07 N69-27460
Electronic circuit system for controlling electric motor speed
[NASA-CASE-XMF-01129] c09 N70-38712
Scanning signal phase and amplitude electronic control device with hybrid T waveguide junction
[NASA-CASE-NPO-10302] c10 N71-26142
Ion beam deflector system for electronic thrust vector control for ion propulsion yaw, pitch, and roll forces
[NASA-CASE-LEW-10689-1] c28 N71-26173
Electronic detection system for peak acceleration limits in vibrational testing of spacecraft components
[NASA-CASE-NPO-10556] c14 N71-27185
Control and information system for digital telemetry data using analog converter to digitize sensed parameter values
[NASA-CASE-NPO-11016] c08 N72-31226
ELECTRONIC EQUIPMENT
Electronic and mechanical scanning control system for monopulse tracking antenna
[NASA-CASE-XGS-05582] c07 N69-27460
Development of pulse-activated polarographic hydrogen detector
[NASA-CASE-XMF-06531] c14 N71-17575
Development of stable electronic amplifier adaptable for monolithic and thin film construction
[NASA-CASE-XGS-02812] c09 N71-19466
Development and characteristics of oscillating static inverter
[NASA-CASE-XGS-05289] c09 N71-19470
Development of electromagnetic wave transmission line circulator and application to parametric amplifier circuits
[NASA-CASE-XNP-02140] c09 N71-23097
Development of optimum pre-detection diversity combining receiving system adapted for use with amplitude modulation, phase modulation, and frequency modulation systems
[NASA-CASE-XGS-00740] c07 N71-23098
Electronic cathodes for use in electron bombardment ion thrustors
[NASA-CASE-XLE-04501] c09 N71-23190
Method and apparatus for adjusting thermal conductance in electronic components for space use
[NASA-CASE-XNP-05524] c33 N71-24876
Development and characteristics of solid state acoustic variable time delay line using direct current voltage and radio frequency pulses
[NASA-CASE-ERC-10032] c10 N71-25900
Voltage range selection apparatus for sensing and applying voltages to electronic instruments without loading signal source
[NASA-CASE-XMS-06497] c14 N71-26244
Digital sensor for counting fringes produced by interferometers with improved sensitivity and one photomultiplier tube to eliminate alignment problem
[NASA-CASE-LAR-10204] c14 N71-27215
Device for rapid adjustment and maintenance of temperature in electronic components
[NASA-CASE-XNP-02792] c14 N71-28958
Apparatus with summing network for compression of analog data by decreasing slope threshold sampling
[NASA-CASE-NPO-10769] c08 N72-11171
Readily assembled universal environment housing for electronic equipment
[NASA-CASE-KSC-10031] c15 N72-22486
Lead attachment for high temperature operation of electronic devices
[NASA-CASE-ERC-10224] c09 N72-25261
Development of method and apparatus for detecting surface ions on silicon diodes and transistors
[NASA-CASE-ERC-10325] c15 N72-25457
Development and characteristics of data decoder to process convolution encoded information
[NASA-CASE-NPO-11371] c08 N73-12177
Characteristics of digital data processor using pulse from clock source to derive binary singles to show state of various indicators in processor
[NASA-CASE-GSC-10975-1] c08 N73-13187
Development and characteristics for automatically displaying digits in any desired order using optical techniques
[NASA-CASE-XMS-00348] c09 N73-14215
Thermochromic compositions for detecting heat levels in electronic circuits and devices
[NASA-CASE-NPO-10764-1] c14 N73-14428
Development of phase control coupling for use with phased array antenna
[NASA-CASE-ERC-10285] c10 N73-16206
Device for locating electrically nonlinear objects and determining distance to object by FM signal transmission
[NASA-CASE-KSC-10108] c14 N73-25461
Electronic strain level counter on in-flight aircraft
[NASA-CASE-LAR-10756-1] c32 N73-26910
Automatic vehicle location system
[NASA-CASE-NPO-11850-1] c32 N74-12912
Automatic focus control for facsimile cameras
[NASA-CASE-LAR-11213-1] c35 N75-15014
Electronic analog divider
[NASA-CASE-LEW-11881-1] c33 N77-17354
ELECTRONIC EQUIPMENT TESTS
Apparatus for automatically testing analog to digital converters for open and short circuits
[NASA-CASE-XLA-06713] c14 N71-28991
Signal conditioner test set
[NASA-CASE-KSC-10750-1] c35 N75-12270
ELECTRONIC FILTERS
Self-tuning electronic filter for maintaining constant bandwidth and center frequency gain
[NASA-CASE-ARC-10264-1] c09 N73-20231
Capacitance multiplier and filter synthesizing network
[NASA-CASE-NPO-11948-1] c33 N74-32712
Notch filter
[NASA-CASE-MFS-23303-1] c32 N77-18307
ELECTRONIC MODULES
Thermal conductive, electrically insulated cleavable adhesive connection between electronic module and heat sink
[NASA-CASE-XMS-02087] c09 N70-41717

Fabrication methods for matrices of solar cell submodules
[NASA-CASE-XNP-05821] c03 N71-11056
Development and characteristics of cooling system to maintain temperature of rack mounted electronic modules
[NASA-CASE-MSC-12389] c33 N71-29052
Tool for use in lifting pin supported objects
[NASA-CASE-NPO-13157-1] c37 N74-32918
Phase substitution of spare converter for a failed one of parallel phase staggered converters
[NASA-CASE-NPO-13812-1] c33 N77-30365

ELECTRONIC PACKAGING
Electrical feedthrough connection for printed circuit boards
[NASA-CASE-XMF-01483] c14 N69-27431
Capacitor fabrication by solidifying mixture of ferromagnetic metal particles, nonferromagnetic particles, and dielectric material
[NASA-CASE-LEW-10364-1] c09 N71-13522
Method of evaluating moisture barrier properties of materials used in electronics encapsulation
[NASA-CASE-NPO-10051] c18 N71-24934
Electrical connections for thin film hybird microcircuits
[NASA-CASE-XMS-02182] c10 N71-28783
Flexible, frangible electrochemical cell and package for operation in low temperature environment
[NASA-CASE-XGS-10010] c03 N72-15986
Development and characteristics of hermetically sealed coaxial package for containing microwave semiconductor components
[NASA-CASE-GSC-10791-1] c15 N73-14469
Techniques for packaging and mounting printed circuit boards
[NASA-CASE-MFS-21919-1] c10 N73-25243
Integrated circuit package with lead structure and method of preparing the same
[NASA-CASE-MFS-21374-1] c33 N74-12951
Tool for use in lifting pin supported objects
[NASA-CASE-NPO-13157-1] c37 N74-32918

ELECTRONIC RECORDING SYSTEMS
Electronic recording system for spatial mass distribution of liquid rocket propellant droplets or vapors ejected from high velocity nozzles
[NASA-CASE-NPO-10185] c10 N71-26339

ELECTRONIC TRANSDUCERS
Fiber optic transducers for monitoring and analysis of vibration in aerospace vehicles and onboard equipment
[NASA-CASE-XMF-02433] c14 N71-10616
Transducer circuit design with single coaxial cable for input and output connections including incorporation into miniaturized catheter transducer
[NASA-CASE-ARC-10132-1] c09 N71-24597
Circuit design for failure sensing and protecting low voltage electric generator and power transmission networks
[NASA-CASE-GSC-10114-1] c10 N71-27366
Diode-quad bridge circuit means
[NASA-CASE-ARC-10364-2(B)] c33 N74-14941
Electromagnetic transducer recording head having a laminated core section and tapered gap
[NASA-CASE-NPO-10711-1] c35 N77-21392

ELECTROPHORESIS
Electrophoretic sample insertion --- device for uniformly distributing samples in flow path
[NASA-CASE-MFS-21395-1] c25 N74-26948
Apparatus for conducting flow electrophoresis in the substantial absence of gravity
[NASA-CASE-MFS-21394-1] c34 N74-27744
Automatic multiple-sample applicator and electrophoresis apparatus
[NASA-CASE-ARC-10991-1] c25 N77-12157

ELECTROPHOTOMETERS
Method and photodetector device for locating abnormal voids in low density materials
[NASA-CASE-MFS-20044] c14 N71-28993

ELECTROPHYSIOLOGY
Dry electrode design with wire sandwiched between two flexible conductive discs for monitoring physiological responses
[NASA-CASE-FRC-10029] c09 N71-24618

ELECTROPLATING
Method of plating copper on aluminum to permit conventional soldering of structural aluminum bodies
[NASA-CASE-XLA-08966-1] c17 N71-25903
Shielded flat conductor cable fabricated by *electroless and electrolytic plating*
[NASA-CASE-MFS-13687] c09 N71-28691
Technique and equipment for sputtering using apertured electrode and pulsed substrate bias
[NASA-CASE-LEW-10920-1] c17 N73-24569

ELECTROSTATIC CHARGE
Charged particle analyzer with periodically varying voltage applied across electrostatic deflection members
[NASA-CASE-XAC-05506-1] c24 N71-16095
Electrostatic measurement system --- for contact-electrifying a dielectric
[NASA-CASE-MFS-22129-1] c33 N75-18477
Internal combustion engine with electrostatic discharging fuels
[NASA-CASE-NPO-13798-1] c37 N77-25535

ELECTROSTATIC ENGINES
Colloidal particle generator for electrostatic engine for propelling space vehicles
[NASA-CASE-XLE-00817] c28 N70-33265
Encapsulated heater forming hollow body for cathode used in ion thruster
[NASA-CASE-LEW-10814-1] c28 N70-35422
Electrostatic ion engines using high velocity electrons to ionize propellant
[NASA-CASE-XLE-00376] c28 N70-37245
Electron bombardment ion rocket engine with improved propellant introduction system
[NASA-CASE-XLE-02066] c28 N71-15661

ELECTROSTATIC GENERATORS
Electrostatic modulator for communicating through plasma sheath formed around spacecraft during reentry
[NASA-CASE-XLA-01400] c07 N70-41331

ELECTROSTATIC PRECIPITATORS
Fine particulate capture device
[NASA-CASE-LEW-11583-1] c37 N74-13199
Zero gravity separator
[NASA-CASE-LAR-10344-1] c35 N76-33470

ELECTROSTATIC PROBES
Low impedance apparatus for measuring electrostatic field intensity near space vehicles
[NASA-CASE-XLE-00820] c14 N71-16014

ELECTROSTATIC PROPULSION
Nuclear electric generator for accelerating charged propellant particles in electrostatic propulsion system
[NASA-CASE-XLE-00818] c22 N70-34248
High voltage insulators for direct current in acceleration system of electrostatic thrustor
[NASA-CASE-XLE-01902] c28 N71-10574
Electrostatic microthrust propulsion system with annular slit colloid thrustor
[NASA-CASE-GSC-10709-1] c28 N71-25213

ELECTROSTATIC SHIELDING
Ion beam thruster shield
[NASA-CASE-LEW-12082-1] c20 N77-10148
Shielded conductor cable system
[NASA-CASE-MSC-12745-1] c33 N77-13338

ELECTROSTATICS
Controllable high voltage source having fast settling time
[NASA-CASE-GSC-11844-1] c33 N75-19522
Durable antistatic coating for polymethylmethacrylate
[NASA-CASE-NPO-13867-1] c27 N77-22257

ELECTROTHERMAL ENGINES
Electrothermal rocket engine using resistance heated heat exchanger
[NASA-CASE-XLE-00267] c28 N70-33356
High resistance cross flow heat exchangers for electrothermal rocket engines
[NASA-CASE-XLE-01783] c28 N70-34175

ELEVATION
Tracking mount for laser telescope employed in tracking large rockets and space vehicles to give information regarding azimuth and elevation
[NASA-CASE-MFS-14017] c14 N71-26627
Automatic braking device for rapidly transferring humans or materials from elevated location
[NASA-CASE-IKS-07814] c15 N71-27067

ELEVATORS (LIFTS)
Centrifuge mounted motion simulator with elevator mechanism
[NASA-CASE-XAC-00399] c11 N70-34815
Guide member for stabilizing cable of open shaft elevator
[NASA-CASE-KSC-10513] c15 N72-25453
ELEVONS
Supersonic or hypersonic vehicle control system comprising elevons with hinge line sweep and free of adverse aerodynamic cross coupling
[NASA-CASE-XLA-08967] c02 N71-27088
ELLIPSES
Ellipsograph for describing and cutting ellipses with minimal axial dimensions
[NASA-CASE-XLA-03102] c14 N71-21079
ELONGATION
Strain gage measurement of elongation due to thermally and mechanically induced stresses
[NASA-CASE-XGS-04478] c14 N71-24233
Amplifying ribbon extensometer
[NASA-CASE-LAR-11825-1] c35 N77-22449
ELUTION
Amino acid analysis
[NASA-CASE-NPO-12130-1] c25 N75-14844
EMERGENCIES
Silent alarm system for mutiple room facility or school
[NASA-CASE-NPO-11307-1] c10 N73-30205
EMERGENCY BREATHING TECHNIQUES
Pulmonary resuscitation method and apparatus with adjustable pressure regulator
[NASA-CASE-XMS-01115] c05 N70-39922
EMERGENCY LIFE SUSTAINING SYSTEMS
Development and characteristics of inflatable structure to provide escape from orbit for spacecrews under emergency conditions
[NASA-CASE-XMS-06162] c31 N71-28851
Three transceiver lunar emergency system to relay voice communication of astronaut
[NASA-CASE-MFS-21042] c07 N72-25171
Emergency descent device
[NASA-CASE-MFS-23074-1] c54 N77-21844
EMISSION SPECTRA
Emission spectroscopy method for contamination monitoring of inert gas metal arc welding
[NASA-CASE-XMF-02039] c15 N71-15871
EMITTANCE
High thermal emittance black surface coatings and process for applying to metal and metal alloy surfaces used in radiative cooling of spacecraft
[NASA-CASE-XLA-06199] c15 N71-24875
EMITTERS
Inverted geometry transistor for use with monolithic integrated circuit
[NASA-CASE-ARC-10330-1] c09 N73-32112
EMULSIONS
Apparatus for obtaining isotropic irradiation on film emulsion from parallel radiation source
[NASA-CASE-MFS-20095] c24 N72-11595
ENAMELS
Refractory porcelain enamel passive control coating for high temperature alloys
[NASA-CASE-MFS-22324-1] c27 N75-27160
ENCAPSULATING
Development of bacteriostatic conformal coating and methods of application
[NASA-CASE-GSC-10007] c18 N71-16046
Flexible, repairable, pottable composition for encapsulating electric connectors
[NASA-CASE-XGS-05180] c18 N71-25881
Test chambers with orifice and helium mass spectrometer for detecting leak rate of encapsulated semiconductor devices
[NASA-CASE-ERC-10150] c14 N71-28992
Electrically coupled individually encapsulated solar cell matrix
[NASA-CASE-NPO-11190] c03 N71-34044
Encapsulated solar cell modules
[NASA-CASE-LEW-12185-1] c44 N77-15490
ENCLOSURES
Method and apparatus for bowing of instrument panels to improve radio frequency shielded enclosure
[NASA-CASE-XMF-09422] c07 N71-19436
ENDOSCOPES
Borescope with adjustable hinged telescoping optical system
[NASA-CASE-MFS-15162] c14 N72-32452
ENDOTHERMIC REACTIONS
Sensor device with switches for measuring surface recession of charring and noncharring ablators
[NASA-CASE-XLA-01781] c14 N69-39975
ENEMY PERSONNEL
Development of electronic detection system for remotely determining number and movement of enemy personnel
[NASA-CASE-ARC-10097-2] c07 N73-25160
ENERGY ABSORPTION
Non-reusable kinetic energy absorber for application in soft landing of space vehicles
[NASA-CASE-XLE-00810] c15 N70-34861
Low onset rate energy absorber in form of strut assembly for crew couch of Apollo command module
[NASA-CASE-MSC-12279-1] c15 N70-35679
Air brake device for absorbing and measuring power from rotating shafts
[NASA-CASE-XLE-00720] c14 N70-40201
Design and development of double acting shock absorber for spacecraft docking operations
[NASA-CASE-XMS-03722] c15 N71-21530
Nonreuseable energy absorbing device comprising ring member with plurality of recesses, cutting members, and guide member mounted in each recess
[NASA-CASE-XMF-10040] c15 N71-22877
Suspended mass oscillation damper based on impact energy absorption for damping wind induced oscillations of tall stacks, antennas, and umbilical towers
[NASA-CASE-LAR-10193-1] c15 N71-27146
Energy absorption device in high precision gear train for protection against damage to components caused by stop loads
[NASA-CASE-XNP-01848] c15 N71-28959
Shock absorber for use as protective barrier in impact energy absorbing system
[NASA-CASE-NPO-10671] c15 N72-20443
High energy absorption docking system design for docking large spacecraft
[NASA-CASE-MFS-20863] c31 N73-26876
Metal shearing energy absorber
[NASA-CASE-HQN-10638-1] c15 N73-30460
ENERGY CONSERVATION
Remote platform power conserving system
[NASA-CASE-GSC-11182-1] c15 N75-13007
ENERGY CONVERSION
Thermoelectric power conversion by liquid metal flowing through magnetic field
[NASA-CASE-XNP-00644] c03 N70-36803
Concentrator device for controlling direction of solar energy onto energy converters
[NASA-CASE-XLE-01716] c09 N70-40234
Device for converting electromagnetic wave energy into electric power
[NASA-CASE-GSC-11394-1] c09 N73-32109
Electric power generation system directory from laser power
[NASA-CASE-NPO-13308-1] c36 N75-30524
Mechanical thermal motor
[NASA-CASE-MFS-23062-1] c37 N77-12402
Low to high temperature energy conversion system
[NASA-CASE-NPO-13510-1] c44 N77-32581
Solar energy collection system
[NASA-CASE-NPO-13810-1] c44 N77-32582
ENERGY CONVERSION EFFICIENCY
Vacuum thermionic converter with short-circuited triodes and increased electron transmission and conversion efficiency
[NASA-CASE-XLE-01015] c03 N69-39898
Direct conversion of thermal energy into electrical energy using crossed electric and magnetic fields
[NASA-CASE-XLE-00212] c03 N70-34134
Increasing power conversion efficiency of electronic amplifiers by power supply switching
[NASA-CASE-XMS-00945] c09 N71-10798
ENERGY DISSIPATION
Energy dissipating shock absorbing system for land payload recovery or vehicle braking
[NASA-CASE-XLA-00754] c15 N70-34850
Motion restraining device --- for dissipating at a controlled rate the force of a moving body
[NASA-CASE-NPO-13619-1] c37 N75-22748
Wingtip vortex dissipator for aircraft
[NASA-CASE-LAR-11645-1] c02 N77-10001

ENERGY DISTRIBUTION
Method and apparatus for measurement of trap density and energy distribution in dielectric films
[NASA-CASE-NPO-13443-1] c76 N76-20994
ENERGY POLICY
Control for nuclear thermionic power source --- power supply circuits, energy policy
[NASA-CASE-NPO-12114-2] c44 N76-15573
Selective coating for solar panels --- energy policy
[NASA-CASE-LEW-12159-1] c44 N76-15603
Solar energy power system
[NASA-CASE-MFS-21628-2] c44 N76-23675
Thermal energy storage system --- operating on superheating of liquids
[NASA-CASE-MFS-23167-1] c44 N76-31667
Solar cell collector and method for producing same --- indium alloy coatings
[NASA-CASE-LEW-12552-1] c44 N77-17564
In-situ laser retorting of oil shale
[NASA-CASE-LEW-12217-1] c36 N77-18429
A non-tracking solar energy collector system
[NASA-CASE-NPO-13813-1] c44 N77-19579
Mount for continuously orienting a collector dish in a system adapted to perform both diurnal and seasonal solar tracking
[NASA-CASE-MFS-23267-1] c35 N77-20401
Solar energy collection system
[NASA-CASE-NPO-13579-2] c44 N77-20565
Low cost solar energy collection system
[NASA-CASE-NPO-13579-3] c44 N77-20566
A non-tracking solar energy collector system
[NASA-CASE-NPO-13817-1] c44 N77-28583
Solar pond
[NASA-CASE-NPO-13581-2] c44 N77-28584
Lightweight reflector assembly
[NASA-CASE-NPO-13707-1] c74 N77-28933
Solar photolysis of water
[NASA-CASE-NPO-13675-1] c44 N77-32580
ENERGY SOURCES
Energy source with tantalum capacitors in parallel and miniature silver oxide button cells for initiating pyrotechnic devices on spacecraft and rocket vehicles
[NASA-CASE-LAR-10367-1] c03 N70-26817
Pulse generator for synchronizing or resetting electronic signals without requiring separate external source
[NASA-CASE-XGS-03632] c09 N71-23311
Controllable high voltage source having fast settling time
[NASA-CASE-GSC-11844-1] c33 N75-19522
ENERGY STORAGE
Switching mechanism with energy stored in coil spring
[NASA-CASE-XGS-00473] c03 N70-38713
Stored charge transistor
[NASA-CASE-NPO-11156-2] c33 N75-31331
An improved rotatable mass for a flywheel
[NASA-CASE-MFS-23051-1] c37 N76-13500
An artificial leg employing a mechanical energy storage device for hip disarticulation
[NASA-CASE-ARC-10916-1] c54 N76-26871
Mechanical capacitor
[NASA-CASE-GSC-12030-1] c44 N76-30652
Safety flywheel
[NASA-CASE-HQN-10888-1] c37 N77-22484
ENERGY TECHNOLOGY
In-situ laser retorting of oil shale
[NASA-CASE-LEW-12217-1] c36 N77-18429
Solar energy collection system
[NASA-CASE-NPO-13579-2] c44 N77-20565
Method for producing solar energy panels by automation
[NASA-CASE-LEW-12541-1] c44 N77-22615
Solar energy collection system
[NASA-CASE-NPO-13810-1] c44 N77-32582
ENERGY TRANSFER
Solar energy absorber
[NASA-CASE-MFS-22743-1] c44 N76-22657
A thermal energy transformer
[NASA-CASE-NPO-14058-1] c44 N77-30616
ENGINE ANALYZERS
Indicated mean effective pressure instrument (IMEP)
[NASA-CASE-LEW-12661-1] c35 N77-32461
ENGINE CONTROL
Direct current electromotive system for regenerative braking of electric motor
[NASA-CASE-XNP-01096] c10 N71-16030
Integrated lift/drag controller for aircraft
[NASA-CASE-ARC-10456-1] c05 N75-12930
ENGINE COOLANTS
Apparatus for cooling and injecting hypergolic propellants into combustion chamber of small rocket engine
[NASA-CASE-XLE-00303] c15 N70-36535
Injector manifold assembly for bipropellant rocket engines providing for fuel propellant to serve as coolant
[NASA-CASE-XNP-00148] c28 N70-38710
ENGINE DESIGN
Design and development of gas turbine combustion unit with nozzle guide vanes for introducing diluent air into combustion gases
[NASA-CASE-XLE-103477-1] c28 N71-20330
Construction and method of arranging plurality of ion engines to form cluster thereby increasing efficiency and control by decreasing heat radiated to space
[NASA-CASE-XNP-02923] c28 N71-23081
Space vehicle system
[NASA-CASE-MSC-12561-1] c18 N76-17185
Noise suppressor for turbo fan jet engines
[NASA-CASE-ARC-10812-1] c07 N76-18131
Fuel combustor
[NASA-CASE-LEW-12137-1] c20 N76-20215
ENGINE FAILURE
System for monitoring presence of neutrals in streams of ions - ion engine control
[NASA-CASE-XNP-02592] c24 N71-20518
ENGINE INLETS
Variably positioned guide vanes for aerodynamic choking
[NASA-CASE-LAR-10642-1] c07 N74-31270
The engine air intake system
[NASA-CASE-ARC-10761-1] c07 N77-18154
ENGINE MONITORING INSTRUMENTS
System for monitoring presence of neutrals in streams of ions - ion engine control
[NASA-CASE-XNP-02592] c24 N71-20518
Indicated mean effective pressure instrument (IMEP)
[NASA-CASE-LEW-12661-1] c35 N77-32461
ENGINE NOISE
Variably positioned guide vanes for aerodynamic choking
[NASA-CASE-LAR-10642-1] c07 N74-31270
Apparatus and method for jet noise suppression
[NASA-CASE-LAR-11903-1] c07 N77-15036
ENGINE TESTS
Electric propulsion engine test chamber
[NASA-CASE-XLE-00252] c11 N70-34844
ENGINEERING DRAWINGS
High-temperature, high-pressure spherical segment valve
[NASA-CASE-XAC-00074] c15 N70-34817
Graphic illustration of lifting body design
[NASA-CASE-FRC-10063] c01 N71-12217
Specifications and drawings for semipassive optical communication system
[NASA-CASE-XLA-01090] c07 N71-12389
Method of making molded electric connector for use with flat conductor cables
[NASA-CASE-XNP-03498] c15 N71-15986
ENTHALPY
Measuring conductive heat flow and thermal conductivity of laminar gas stream in cylindrical plug to simulate atmospheric reentry
[NASA-CASE-XLE-00266] c14 N70-34156
ENVIRONMENT SIMULATION
Method and apparatus for applying compressional forces to skeletal structure of subject to simulate force during ambulatory conditions
[NASA-CASE-ARC-10100-1] c05 N71-24738
Gravity environment simulation by locomotion and restraint aid for studying manual operation performance of astronauts at zero gravity
[NASA-CASE-ARC-10153] c05 N71-28619
ENVIRONMENT SIMULATORS
Space environment simulator for testing spacecraft components under aerospace conditions
[NASA-CASE-NPO-10141] c11 N71-24964
ENVIRONMENTAL CONTROL
Portable environmental control and life support system for astronaut in and out of spacecraft
[NASA-CASE-XMS-09632-1] c05 N71-11203

Portable apparatus producing high velocity annular air column surrounding low velocity, filtered, superclean air central core for industrial clean room environmental control
[NASA-CASE-XMF-03212] c15 N71-22721
Development and characteristics of thermal sensitive panel for controlling ratio of solar absorptivity to surface emissivity for space vehicle temperature control
[NASA-CASE-XIA-07728] c33 N71-22890
Dual solid cryogens for spacecraft refrigeration insuring low temperature cooling for extended periods
[NASA-CASE-GSC-10188-1] c23 N71-24725
Vibration control of flexible bodies in steady accelerating environment
[NASA-CASE-LAR-10106-1] c15 N71-27169
Test chamber for determining decomposition and autoignition of materials used in spacecraft under controlled environmental conditions
[NASA-CASE-KSC-10198] c11 N71-28629
Readily assembled universal environment housing for electronic equipment
[NASA-CASE-KSC-10031] c15 N72-22486
Environmentally controlled suit for working in sterile chamber
[NASA-CASE-LAR-10076-1] c05 N73-20137
Dual stage check valve for cryogenic supply systems used in space flight environmental control system
[NASA-CASE-MSC-13587-1] c15 N73-30459
Spacecraft with artificial gravity and earthlike atmosphere
[NASA-CASE-LEW-11101-1] c31 N73-32750

ENVIRONMENTAL ENGINEERING
Thermal control wall panel with application to spacecraft cabins
[NASA-CASE-XLA-01243] c33 N71-22792

ENVIRONMENTAL TESTS
Multisample test chamber for exposing materials to X rays, temperature change, and gaseous conditions and determination of material effects
[NASA-CASE-XMS-02930] c11 N71-23042
Space suit using nonflexible material with low leakage and providing protection against thermal extremes, physical punctures, and radiation with high mobility articulation
[NASA-CASE-XAC-07043] c05 N71-23161
Flammability test chamber for testing materials in certain predetermined environments
[NASA-CASE-KSC-10126] c11 N71-24985
Multiaxes vibration device for making vibration tests along orthogonal axes of test specimen
[NASA-CASE-MFS-20242] c14 N73-19421

ENVIRONMENTS
Hermetically sealed elbow actuator for use in severe environments
[NASA-CASE-MFS-14710] c09 N72-22195

ENZYME ACTIVITY
Use of enzyme hexokinase and glucose to reduce inherent light levels of ATP in luciferase compositions
[NASA-CASE-XGS-05533] c04 N69-27487
Enzymatic luminescent bioassay method for determining bacterial levels in urine
[NASA-CASE-GSC-11092-2] c04 N73-27052

ENZYMES
Protein sterilization of firefly luciferase without denaturation
[NASA-CASE-GSC-10225-1] c06 N73-27086

EPICYCLOIDS
Sequencing device utilizing planetary gear set
[NASA-CASE-MSC-19514-1] c37 N77-19459

EPOXY COMPOUNDS
Synthesis of siloxane containing epoxy polymers with low dielectric properties
[NASA-CASE-MFS-13994-1] c06 N71-11240
Synthesis of siloxane containing epoxide and diamine polymers
[NASA-CASE-MFS-13994-2] c06 N72-25148

EPOXY RESINS
Nonmagnetic hermetically sealed battery case made of epoxy resin and woven glass tape for use with electrochemical cells in spacecraft
[NASA-CASE-XGS-00886] c03 N71-11053
Epoxy resin sealing device for electrochemical cells in high vacuum environments
[NASA-CASE-XGS-02630] c03 N71-22974
Cold metal hydroforming techniques using epoxy molds for counteracting creep or stretch
[NASA-CASE-XLE-05641-1] c15 N71-26346
Miniature electromechanical junction transducer operating on piezojunction effect and utilizing epoxy for stress coupling component
[NASA-CASE-ERC-10087] c14 N71-27334
Infusible polymer production from reaction of polyfunctional epoxy resins with polyfunctional aziridine compounds
[NASA-CASE-NPO-10701] c06 N71-28620
Method of repairing discontinuity in fiberglass structures
[NASA-CASE-LAR-10416-1] c24 N74-30001
Transparent fire resistant polymeric structures
[NASA-CASE-ARC-10813-1] c27 N76-16230
Composite sandwich lattice structure
[NASA-CASE-LAR-11898-1] c24 N77-15103

EQUIPMENT
Bimetallic fluid displacement apparatus --- for stirring and heating stored gases and liquids
[NASA-CASE-ARC-10441-1] c35 N74-15126

EQUIPMENT SPECIFICATIONS
Differential pressure cell insensitive to changes in ambient temperature and extreme overload
[NASA-CASE-XAC-00042] c14 N70-34816
High-temperature, high-pressure spherical segment valve
[NASA-CASE-XAC-00074] c15 N70-34817
Remote-reading torquemeter for use where high horsepowers are transmitted at high rotative speeds
[NASA-CASE-XLE-00503] c14 N70-34818
Magnetically centered liquid column float
[NASA-CASE-XAC-00030] c14 N70-34820
Electric propulsion engine test chamber
[NASA-CASE-XLE-00252] c11 N70-34844
Channel-type shell construction for rocket engines and related configurations
[NASA-CASE-XLE-00144] c28 N70-34860
Non-reusable kinetic energy absorber for application in soft landing of space vehicles
[NASA-CASE-XLE-00810] c15 N70-34861
Slit regulated gas journal bearing
[NASA-CASE-XNP-00476] c15 N70-38620
Specifications and drawings for semipassive optical communication system
[NASA-CASE-XLA-01090] c07 N71-12389
Stretcher with rigid head and neck support with capability of supporting immobilized person in vertical position for removal from vehicle hatch to exterior also useful as splint stretcher
[NASA-CASE-XMF-06589] c05 N71-23159
Development of vortex fluid amplifier for throttling rocket exhaust
[NASA-CASE-LEW-10374-1] c28 N73-13773
Simplified technique and device for producing industrial grade synthetic diamonds
[NASA-CASE-MFS-20698-2] c15 N73-19457
Anti-buckling fatigue test assembly --- for subjecting metal specimen to tensile and compressive loads at constant temperature
[NASA-CASE-LAR-10426-1] c09 N74-19528
Apparatus for conducting flow electrophoresis in the substantial absence of gravity
[NASA-CASE-MFS-21394-1] c34 N74-27744
Thermocouple tape --- developed from thermoelectrically different metals
[NASA-CASE-LEW-11072-2] c35 N76-15434

EQUIPOTENTIALS
Equipotential space suits utilizing mechanical aids to minimize astronaut energy at bending joints
[NASA-CASE-LAR-10007-1] c05 N71-11195
Instrument for measuring potentials on two dimensional electric field plot
[NASA-CASE-XLA-08493] c10 N71-19421

ERGOMETERS
Development of restraint system for securing personnel to ergometer while exercising under weightless conditions
[NASA-CASE-MFS-21046-1] c14 N73-27377
Versatile ergometer with work load control
[NASA-CASE-MFS-21109-1] c05 N73-27941
Tilting table for testing human body in variety of positions while exercising on ergometer or other biomedical devices

[NASA-CASE-MFS-21010-1] c05 N73-30078
Pneumatic foot pedal operated fluidic exercising device
[NASA-CASE-MSC-11561-1] c05 N73-32014
Ergometer calibrator --- for any ergometer utilizing rotating shaft
[NASA-CASE-MFS-21045-1] c35 N75-15932
EROSION
Thermal shock and erosion resistant tantalum carbide ceramic material
[NASA-CASE-LAR-11902-1] c27 N76-23436
ERROR ANALYSIS
Development of computer program for estimating reliability of self-repair and fault-tolerant systems with respect to selected system and mission parameters
[NASA-CASE-NPO-13086-1] c15 N73-12495
Bit error rate measurement above and below bit rate tracking threshold
[NASA-CASE-MSC-12743-1] c32 N77-19290
ERROR CORRECTING DEVICES
Error correction circuitry for binary signal channels
[NASA-CASE-XNP-03263] c09 N71-18843
Multiplexed communication system design including automatic correction of transmission errors introduced by frequency spectrum shifts
[NASA-CASE-XNP-01306] c07 N71-20814
Description of error correcting methods for use with digital data computers and apparatus for encoding and decoding digital data
[NASA-CASE-XNP-02748] c08 N71-22749
Failure detection and control means for improved drift performance of a gimballed platform system
[NASA-CASE-MFS-23551-1] c04 N76-26175
Guide for a typewriter
[NASA-CASE-MFS-15218-1] c37 N77-19457
ERROR DETECTION CODES
Self testing and repairing computer comprising control and diagnostic unit and rollback points for error correction
[NASA-CASE-NPO-10567] c08 N71-24633
ERROR SIGNALS
Error correction circuitry for binary signal channels
[NASA-CASE-XNP-03263] c09 N71-18843
Feedback controller for sampling error signals within single control formulation time interval
[NASA-CASE-GSC-10554-1] c08 N71-29033
Bit error rate measurement above and below bit rate tracking threshold
[NASA-CASE-MSC-12743-1] c32 N77-19290
ERRORS
Analog to digital converter using offset voltage to eliminate errors
[NASA-CASE-MSC-13110-1] c08 N72-22163
ESCAPE CAPSULES
Aerial capsule emergency separation device using jettisonable towers
[NASA-CASE-XLA-00115] c03 N70-33343
Emergency escape cabin system for launch towers
[NASA-CASE-XKS-02342] c05 N71-11199
Spacecraft design with single point aerodynamic and hydrodynamic stability for emergency transport of men from space station to splashdown
[NASA-CASE-MSC-13281] c31 N72-18859
ESCAPE SYSTEMS
Design and specifications of emergency escape system for spacecraft structures
[NASA-CASE-MSC-12086-1] c05 N71-12345
Automatic braking device for rapidly transferring humans or materials from elevated location
[NASA-CASE-XKS-07814] c15 N71-27067
ESTERS
Fluorinated esters of polycarboxylic acid and lubricating compositions for use at extreme temperature
[NASA-CASE-MFS-21040-1] c06 N73-30098
ETCHING
Reusable masking boot for chemical machining operations
[NASA-CASE-XNP-02092] c15 N70-42033
Development of method for etching copper
[NASA-CASE-XGS-06306] c17 N71-16044
Composition and process for improving definition of resin masks used in chemical etching
[NASA-CASE-XGS-04993] c14 N71-17574
Etching aluminum alloys with aqueous solution containing sulfuric acid, hydrofluoric acid, and an alkali metal dichromate for adhesive bonding
[NASA-CASE-XNP-02303] c17 N71-23828
Selective plating of etched circuits without removing previous plating
[NASA-CASE-XGS-03120] c15 N71-24047
Nickel plating onto etched aluminum castings
[NASA-CASE-XNP-04148] c17 N71-24830
Scanning nozzle plating system --- for etching or plating metals on substrates without masking
[NASA-CASE-NPO-11758-1] c31 N74-23065
ETHERS
Method for producing alternating ether-siloxane copolymers with stable properties when exposed to elevated temperatures and UV radiation
[NASA-CASE-XNP-02584] c06 N71-20905
Chemical synthesis of hydroxy terminated perfluoro ethers as intermediates for highly fluorinated polyurethane resins
[NASA-CASE-NPO-10768] c06 N71-27254
Formation of polyurethane resins from hydroxy terminated perfluoro ethers
[NASA-CASE-NPO-10768-2] c06 N72-27144
ETHYLENE OXIDE
Using ethylene oxide in preparation of sterilized solid rocket propellants and encapsulating materials
[NASA-CASE-XNP-01749] c27 N70-41897
Ethylene oxide sterilization and encapsulating process for sterile preservation of instruments and solid propellants
[NASA-CASE-XNP-09763] c14 N71-20461
EUTECTIC ALLOYS
Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide
[NASA-CASE-GSC-11577-1] c37 N75-15992
Method of growing composites of the type exhibiting the Soret effect --- improved structure of eutectic alloy crystals
[NASA-CASE-MFS-22926-1] c24 N77-27187
Directionally solidified eutectic gamma plus beta nickel-base superalloys
[NASA-CASE-LEW-12906-1] c26 N77-32279
EVACUATING (VACUUM)
Filling honeycomb matrix with deaerated paste filler
[NASA-CASE-XMS-01108] c15 N69-24322
Sealing evacuation port and evacuating vacuum container such as space jackets
[NASA-CASE-XNP-03290] c15 N71-23256
Gas leak detection in evacuated systems using ultraviolet radiation probe
[NASA-CASE-ERC-10034] c15 N71-24896
Evacuated, displacement compression mold --- of tubular bodies from thermosetting plastics
[NASA-CASE-LAR-10782-2] c31 N75-13111
EVAPORATION
Evaporating crucible of tantalum-tungsten foil, nickel alumina bonding agent, and ceramic coating
[NASA-CASE-XLA-03105] c15 N69-27483
EVAPORATIVE COOLING
Tubular sublimatory evaporator heat sink
[NASA-CASE-ARC-10912-1] c34 N77-19353
EVAPORATORS
Spatter proof evaporant source design for use in vacuum deposition of solid thin films on substrates
[NASA-CASE-XNP-06065] c15 N71-20395
Means of vapor deposition using electric current and evaporator filament
[NASA-CASE-LAR-10541-1] c15 N72-32487
EXAMINATION
An improved method and apparatus for use in examining the lattice of a semiconductor wafer by X-ray diffraction
[NASA-CASE-MFS-23315-1] c76 N76-32029
EXHAUST GASES
Device for adding water to high velocity exhaust jets to reduce velocity, noise, and temperature
[NASA-CASE-XNP-01813] c28 N70-41582
Gas turbine exhaust nozzle --- for noise reduction
[NASA-CASE-LEW-11569-1] c07 N74-15453
Abating exhaust noises in jet engines
[NASA-CASE-ARC-10712-1] c07 N74-33218
Exhaust flow deflector --- for ducted gas flow
[NASA-CASE-LAR-11570-1] c34 N76-18364

EXHAUST NOZZLES
High thrust annular liquid propellant rocket engine and exhaust nozzle design
[NASA-CASE-XLE-00078] c28 N70-33284
Exhaust nozzle with afterburning for generating thrust
[NASA-CASE-XLA-00154] c28 N70-33374
Penshaped, supersonic exhaust nozzle design
[NASA-CASE-XLE-00057] c28 N70-38711
Automatic ejection valve for attitude control and midcourse guidance of space vehicles
[NASA-CASE-XNP-00676] c15 N70-38996
Jet aircraft exhaust nozzle for noise reduction
[NASA-CASE-LAR-10951-1] c28 N73-19819
Two dimensional wedge/translating shroud nozzle
[NASA-CASE-LAR-11919-1] c07 N76-22202

EXOTHERMIC REACTIONS
Intumescent-ablator coatings using endothermic fillers
[NASA-CASE-ARC-11043-1] c34 N77-14372

EXPANDABLE STRUCTURES
Expanding and contracting connector strip for solar cell array of Nimbus satellite
[NASA-CASE-XGS-01395] c03 N69-21539
Method of compactly packaging centrifugally expandable lightweight flexible reflector satellite
[NASA-CASE-XLA-00138] c31 N70-37981
Foldable conduit capable of springing back as self erecting structural member
[NASA-CASE-XLE-00620] c32 N70-41579
Collapsible high gain antenna which can be automatically expanded to operating state
[NASA-CASE-KSC-10392] c07 N73-26117
Expandable space frames with high expansion to collapse ratio
[NASA-CASE-ERC-10365-1] c31 N73-32749
Means for accommodating large overstrain in lead wires --- by storing extra length of wire in stretchable loop
[NASA-CASE-LAR-10168-1] c33 N74-22865

EXPANSION
Apparatus for measuring polymer membrane expansion in electrochemical cells
[NASA-CASE-XGS-03865] c14 N69-21363

EXPERIMENTAL DESIGN
Efficient operation of improved hydrofoil design
[NASA-CASE-XLA-00229] c12 N70-33305
Sealed electric storage battery with gas manifold interconnecting each cell
[NASA-CASE-XNP-03378] c03 N71-11051
Electrode attached to helmets for detecting low level signals from skin of living creatures
[NASA-CASE-ARC-10043-1] c05 N71-11193
Space suit using nonflexible material with low leakage and providing protection against thermal extremes, physical punctures, and radiation with high mobility articulation
[NASA-CASE-XAC-07043] c05 N71-23161

EXPLOSIONS
Device for detection of combustion light preceding gaseous explosions
[NASA-CASE-LAR-10739-1] c14 N73-16484

EXPLOSIVE DEVICES
Stage separation using remote control release of joint with explosive insert
[NASA-CASE-XLA-02854] c15 N69-27490
Hermetically sealed explosive release mechanism for actuator device
[NASA-CASE-XGS-00824] c15 N71-16078
Development of non-magnetic indexing device for orienting magnetic flux sensing instrument in magnetic field without generation of detrimental magnetic fields
[NASA-CASE-XGS-02422] c15 N71-21529
Development of apparatus for detonating explosive devices in order to determine forces generated and detonation propagation rate
[NASA-CASE-LAR-10800-1] c33 N72-27959
Development and characteristics of squib actuated explosive disconnect for spacecraft release from launch vehicle
[NASA-CASE-NPO-11330] c33 N73-26958

EXPLOSIVE FORMING
Electric discharge apparatus for electrohydraulic explosive forming
[NASA-CASE-XMF-00375] c15 N70-34249

EXPLOSIVE WELDING
Method for eliminating noise and debris of explosive welding techniques by using complete enclosure
[NASA-CASE-LAR-10941-2] c15 N73-32371
Totally confined explosive welding --- apparatus to reduce noise level and protect personnel during explosive bonding
[NASA-CASE-LAR-10941-1] c37 N74-21057
Method of making an explosively welded scarf joint
[NASA-CASE-LAR-11211-1] c37 N75-12326

EXPLOSIVES
Production of intermetallic compounds by effect of shock waves from explosions and compaction of powder
[NASA-CASE-MFS-20861-1] c18 N73-32437
Optically detonated explosive device
[NASA-CASE-NPO-11743-1] c28 N74-27425
Electroexplosive device
[NASA-CASE-NPO-13858-1] c28 N77-17258

EXPONENTIAL FUNCTIONS
Digital quasi-exponential function generator
[NASA-CASE-NPO-11130] c08 N72-20176

EXPOSURE
Mechanical exposure interlock device for preventing film overexposure in oscilloscope camera
[NASA-CASE-LAR-10319-1] c14 N73-32322

EXPULSION BLADDERS
Expulsion bladder equipped storage tank structure
[NASA-CASE-XNP-00612] c11 N70-38182
Rubber composition for expulsion bladders and diaphragms for use with hydrazine
[NASA-CASE-NPO-11433] c18 N71-31140

EXTENSIONS
Support for flexible conductor cable between drawers or racks holding electronic equipment and cabinet assembly housing drawers or racks
[NASA-CASE-XMF-07587] c15 N71-18701
Automatically lockable axially extensible strut --- for helicopters
[NASA-CASE-LAR-11900-1] c05 N77-18134

EXTENSOMETERS
Transducer frame for use with extensometer to continuously monitor specimen sample
[NASA-CASE-XLA-10322] c15 N72-17452
Conductive elastomeric extensometer
[NASA-CASE-MFS-21049-1] c52 N74-27864
Laser extensometer
[NASA-CASE-MFS-19259-1] c36 N77-10516
Amplifying ribbon extensometer
[NASA-CASE-LAR-11825-1] c35 N77-22449

EXTRACTION
Liquid-gas separator adapted for use in zero gravity environment - drawings
[NASA-CASE-XMS-01624] c15 N70-40062

EXTRAVEHICULAR ACTIVITY
Portable environmental control and life support system for astronaut in and out of spacecraft
[NASA-CASE-XMS-09632-1] c05 N71-11203
Hand-held maneuvering unit for propulsion and attitude control of astronauts in zero or reduced gravity environment
[NASA-CASE-XMS-05304] c05 N71-12336
Internal and external serpentine devices for performing physical operations around orbital space stations
[NASA-CASE-XMF-05344] c31 N71-16345
Releasable, pin-type fastener, easily operated during EVA
[NASA-CASE-ARC-10140-1] c15 N71-17653
Design and development of flexible tunnel for use by spacecrews in performing extravehicular activities
[NASA-CASE-MSC-12243-1] c05 N71-24728
Open loop life support subsystem using breathing bag as reservoir for EVA
[NASA-CASE-MSC-12411-1] c05 N72-20096
Intra- and extravehicular life support space suite for Apollo astronauts
[NASA-CASE-MSC-12609-1] c05 N73-32012

EXTREMELY LOW RADIO FREQUENCIES
VHF/UHF parasitic probe antenna for spacecraft communication
[NASA-CASE-XMS-09340] c07 N71-24614

EXTRUDING
Extrusion can for extruding ceramics under heat and pressure
[NASA-CASE-NPO-10812] c15 N73-13464
Brazing alloy binder
[NASA-CASE-XMF-05868] c26 N75-27125

EYE (ANATOMY)
Sight switch using infrared source and sensor mounted beside eye
[NASA-CASE-XMF-03934] c09 N71-22985
Ultrasonic device for ophthalmic eye surgery with safe removal of macerated material
[NASA-CASE-LEW-11669-1] c05 N73-27062
Spectrally balanced chromatic landing approach lighting system
[NASA-CASE-ARC-10990-1] c04 N77-12031
Corneal seal device
[NASA-CASE-LEW-12258-1] c52 N77-28716

EYE DISEASES
Flow compensating pressure regulator --- for ophthalmic applications
[NASA-CASE-LEW-12718-1] c35 N77-20408

EYE EXAMINATIONS
Automated visual sensitivity tester for determining visual field sensitivity and blind spot size
[NASA-CASE-ARC-10329-1] c05 N73-26072
Multiparameter vision testing apparatus
[NASA-CASE-MSC-13601-2] c54 N75-27759
Visual examination apparatus
[NASA-CASE-HE-ARC-10329-2] c52 N76-30793

EYEPIECES
Wide angle eyepiece with long eye-relief distance
[NASA-CASE-XMS-06056-1] c23 N71-24857

F

FABRICATION
Fabrication of pressure-telemetry transducers
[NASA-CASE-XNP-09752] c14 N69-21541
Fabrication method for lightweight regeneratively cooled combustion chamber of channel construction
[NASA-CASE-XLE-00150] c28 N70-41818
Fabrication methods for matrices of solar cell submodules
[NASA-CASE-XNP-05821] c03 N71-11056
Capacitor fabrication by solidifying mixture of ferromagnetic metal particles, nonferromagnetic particles, and dielectric material
[NASA-CASE-LEW-10364-1] c09 N71-13522
Method and apparatus for fabricating solar cell panels
[NASA-CASE-XNP-03413] c03 N71-26726
Fabrication of root cord restrained fabric suit sections from sheets of fabric
[NASA-CASE-MSC-12398] c05 N72-20098
Method of fabricating equal length insulated wire
[NASA-CASE-FRC-10038] c15 N72-20444
Development of thin film temperature sensor from TaO
[NASA-CASE-NPO-11775] c26 N72-28761
Fabrication of polycrystalline solar cells on low-cost substrates
[NASA-CASE-GSC-12022-1] c44 N76-28635
Lightweight reflector assembly
[NASA-CASE-NPO-13707-1] c74 N77-28933

FABRICS
Fabrication of root cord restrained fabric suit sections from sheets of fabric
[NASA-CASE-MSC-12398] c05 N72-20098
Nozzle extraction process and handlemeter for measuring handle
[NASA-CASE-LAR-12147-1] c27 N77-10198
Amplifying ribbon extensometer
[NASA-CASE-LAR-11825-1] c35 N77-22449

FABRY-PEROT INTERFEROMETERS
Fabry-Perot interferometer retrodirective reflector modulator for optical communication
[NASA-CASE-XGS-04480] c16 N69-27491

FACSIMILE COMMUNICATION
Restoration and improvement of demodulated facsimile video signals
[NASA-CASE-GSC-10185-1] c07 N72-12081
Spectrometer integrated with a facsimile camera
[NASA-CASE-LAR-11207-1] c35 N75-19613

FACTORIAL DESIGN
Space suit with pressure-volume compensator system
[NASA-CASE-XLA-05332] c05 N71-11194
Equipotential space suits utilizing mechanical aids to minimize astronaut energy at bending joints
[NASA-CASE-LAR-10007-1] c05 N71-11195

FAIL-SAFE SYSTEMS
Fail-safe multiple transformer circuit configuration
[NASA-CASE-NPO-11078] c09 N72-25262
Latch mechanism
[NASA-CASE-MSC-12549-1] c37 N74-27903

FAILURE MODES
Method for reducing mass of ball bearings for long life operation at high speed
[NASA-CASE-LEW-10856-1] c15 N72-22490
Inverter ratio failure detector
[NASA-CASE-NPO-13160-1] c35 N74-18090

FAIRINGS
System for deploying and ejecting releasable clamshell fairing sections from spinning sounding rockets
[NASA-CASE-GSC-10590-1] c31 N73-14853

FALLING SPHERES
Device for determining acceleration of gravity by interferometric measurement of travel of falling body
[NASA-CASE-XMF-05844] c14 N71-17587

FAR INFRARED RADIATION
Collimator for analyzing spatial location of near and distant sources of radiation
[NASA-CASE-MFS-20546-2] c14 N73-30389

FAR ULTRAVIOLET RADIATION
Transient heat transfer gage for measuring total radiant intensity from far ultraviolet and ionized high temperature gases
[NASA-CASE-XNP-09802] c33 N71-15641

FASTENERS
Force measuring instrument for structural members, particularly fastening bolts or studs
[NASA-CASE-XMF-00456] c14 N70-34705
Lightweight life preserver without fastening devices
[NASA-CASE-XMS-00864] c05 N70-36493
Nut and bolt fastener permitting all-directional movement of skin sections with respect to supporting structure
[NASA-CASE-XLA-01807] c15 N71-10799
Releasable, pin-type fastener, easily operated during EVA
[NASA-CASE-ARC-10140-1] c15 N71-17653
Ultrasonic wrench for applying vibratory energy to mechanical fasteners
[NASA-CASE-MFS-20586] c15 N71-17686
Design and development of electric connectors for rigid and semirigid coaxial cables
[NASA-CASE-XNP-04732] c09 N71-20851
Design, development, and characteristics of latching mechanism for operation in limited access areas
[NASA-CASE-XMS-03745] c15 N71-21076
Design and development of module joint clamping device for application to solar array construction
[NASA-CASE-XNP-02341] c15 N71-21531
Threadless fastener apparatus comprising receiving apertures for plurality of articles, self-locked condition, and capable of using nonmalleable materials in both ends
[NASA-CASE-XFR-05302] c15 N71-23254
Development of resilient fastener for attaching skin of aerospace vehicles to permit movement of skin relative to framework
[NASA-CASE-XLA-01027] c31 N71-24035
Pneumatic mechanism for releasing hook and loop fasteners between large rigid structures
[NASA-CASE-XMS-10660-1] c15 N71-25975

FATIGUE (MATERIALS)
Servocontrol system for measuring local stresses at geometric discontinuity in stressed material
[NASA-CASE-XLA-08530] c32 N71-25360
TV fatigue crack monitoring system
[NASA-CASE-LAR-11490-1] c35 N76-28530

FATIGUE LIFE
Fatigue resistant shear pin with hollow shaft and two plugs
[NASA-CASE-XLA-09122] c15 N69-27505
Improving load capacity and fatigue life of rolling element systems in rockets and missiles
[NASA-CASE-XLE-02999] c15 N71-16052
Method for reducing mass of ball bearings for long life operation at high speed
[NASA-CASE-LEW-10856-1] c15 N72-22490
Fatigue life of hybrid antifriction bearings at ultrahigh speeds

[NASA-CASE-LEW-11152-1] c15 N73-32359
A machine for use in monitoring fatigue life for a plurality of elastomeric specimens
[NASA-CASE-NPO-13731-1] c39 N76-17427
FATIGUE TESTING MACHINES
Cryostat for use with horizontal fatigue testing machines at low temperatures
[NASA-CASE-XMF-10968] c14 N71-24234
Fatigue testing apparatus with light shield and infrared reflector for high temperature evaluation of loaded sheet samples
[NASA-CASE-XLA-01782] c14 N71-26136
A machine for use in monitoring fatigue life for a plurality of elastomeric specimens
[NASA-CASE-NPO-13731-1] c39 N76-17427
FATIGUE TESTS
Fatigue testing device applying random discrete load levels to test specimen and applicable to aircraft structures
[NASA-CASE-XLA-02131] c32 N70-42003
FATS
Oil and fat absorbing polymers
[NASA-CASE-NPO-11609-2] c27 N77-31308
FECES
Fecal waste disposal container
[NASA-CASE-XMS-06761] c05 N69-23192
FEED SYSTEMS
Nonconductive tube as feed system for plasma thrustor
[NASA-CASE-XLE-02902] c25 N71-21694
Method and apparatus for pressurizing propellant tanks used in propulsion motor feed system
[NASA-CASE-XNP-00650] c27 N71-28929
Pressurized tank for feeding liquid waste into processing equipment
[NASA-CASE-LAR-10365-1] c05 N72-27102
Pressurized inert gas feed for lighting system
[NASA-CASE-KSC-10644] c09 N72-27227
Dual frequency feed systems for Cassegrainian antennas
[NASA-CASE-NPO-13091-1] c09 N73-12214
Improved injector with porous plug for bubbles of gas into feed lines of electrically conductive liquid
[NASA-CASE-NPO-11377] c15 N73-27406
FEEDBACK
RC networks with voltage amplifier, RC input circuit, and positive feedback
[NASA-CASE-ARC-10020] c10 N72-17172
Multistage feedback shift register with states decomposable into cycles of equal length
[NASA-CASE-NPO-11082] c08 N72-22167
Inverter oscillator with voltage feedback
[NASA-CASE-NPO-10760] c09 N72-25254
Wide power range microwave feedback controller
[NASA-CASE-GSC-12146-1] c33 N77-21322
FEEDBACK AMPLIFIERS
Development of system with electrical properties which vary with changes in temperature for use with feedback loop in operational amplifier circuit
[NASA-CASE-MSC-13276-1] c14 N71-27058
Phase locked demodulator with bandwidth switching amplifier circuit
[NASA-CASE-XNP-01107] c10 N71-28859
Monostable multivibrator for producing output pulse widths with positive feedback NOR gates
[NASA-CASE-MSC-13492-1] c10 N71-28860
FEEDBACK CIRCUITS
Low power drain transistor feedback circuit
[NASA-CASE-XGS-04999] c09 N69-24317
Linear three-tap feedback shift register
[NASA-CASE-NPO-10351] c08 N71-12503
Frequency control network for current feedback oscillators converting dc voltage to ac or higher dc voltages
[NASA-CASE-GSC-10041-1] c10 N71-19418
Feedback integrating circuit with grounded capacitor for signal processing
[NASA-CASE-XAC-10607] c10 N71-23669
Development of idler feedback system to reduce electronic noise problem in two parametric amplifiers
[NASA-CASE-LAR-10253-1] c09 N72-25258
Linear shift register with feedback logic for generating pseudonoise linear recurring binary sequences
[NASA-CASE-NPO-11406] c08 N73-12175
Logarithmic circuit with wide dynamic range
[NASA-CASE-GSC-12145-1] c33 N77-19319
Digital automatic gain amplifier
[NASA-CASE-KSC-11008-1] c33 N77-21321
FEEDBACK CONTROL
Describing continuous analog to digital converter with parallel digital output and nonlinear feedback
[NASA-CASE-XAC-04031] c08 N71-18594
Pulsed magnetic core memory element with blocking oscillator feedback for interrogation without loss of digital information
[NASA-CASE-XGS-03303] c08 N71-18595
Binary to decimal decoder logic circuit design with feedback control and display device
[NASA-CASE-XKS-06167] c08 N71-24890
Feedback control for direct current motor to achieve constant speed under varying loads
[NASA-CASE-MFS-14610] c09 N71-28886
Feedback controller for sampling error signals within single control formulation time interval
[NASA-CASE-GSC-10554-1] c08 N71-29033
Closed loop servosystem for variable speed tape recorders onboard spacecraft
[NASA-CASE-NPO-10700] c07 N71-33613
Development of aerodynamic control system to control flutter over large range of oscillatory frequencies using stability augmentation techniques
[NASA-CASE-LAR-10682-1] c02 N73-26004
Regulated dc-to-dc converter for voltage step-up or step-down with input-output isolation
[NASA-CASE-HQN-10792-1] c33 N74-11049
System and method for tracking a signal source --- employing feedback control
[NASA-CASE-HQN-10880-1] c32 N75-30385
Diffused waveguiding capillary tube with distributed feedback for a gas laser
[NASA-CASE-NPO-13544-1] c36 N76-18428
Closed loop spray cooling apparatus --- for particle accelerator targets
[NASA-CASE-LEW-11981-1] c37 N76-20486
The dc-to-dc converters employing staggered-phase power switches with two-loop control
[NASA-CASE-NPO-13512-1] c33 N77-10428
FEEDBACK FREQUENCY MODULATION
Method and apparatus for communicating through ionized layer of gases surrounding spacecraft during reentry into planetary atmospheres
[NASA-CASE-XLA-01127] c07 N70-41372
Characteristics of data-aided carrier tracking loop used for tracking carrier in angle modulated communications system
[NASA-CASE-NPO-11282] c10 N73-16205
Linear phase demodulator including a phase locked loop with auxiliary feedback loop
[NASA-CASE-GSC-12018-1] c33 N77-14334
FEEDERS
Automatic real-time pair-feeding system for animals
[NASA-CASE-ARC-10302-1] c51 N74-15778
FELTS
Thermal insulation attaching means --- adhesive bonding of felt vibration isolators under ceramic tiles
[NASA-CASE-MSC-12619-2] c16 N77-31237
FEMALES
Liquid cooled brassiere and method of diagnosing malignant tumors therewith
[NASA-CASE-ARC-11007-1] c52 N77-14736
FERRITES
Magnetic recording head composed of ferrite core coated with thin film of aluminum-iron-silicon alloy
[NASA-CASE-GSC-10097-1] c08 N71-27210
Method for making conductors for ferrite memory arrays --- from pre-formed metal conductors
[NASA-CASE-LAR-10994-1] c24 N75-13032
Device for measuring the ferrite content in an austenitic stainless-steel weld
[NASA-CASE-MFS-22907-1] c26 N76-18257
FERROMAGNETISM
High temperature ferromagnetic cobalt-base alloy for electrical power generating equipment
[NASA-CASE-XLE-03629] c17 N71-23248
FIBER OPTICS
Fiber optic transducers for monitoring and analysis of vibration in aerospace vehicles

and onboard equipment
[NASA-CASE-XMF-02433] c14 N71-10616
Fiber distributed feedback laser
[NASA-CASE-NPO-13531-1] c36 N76-24553
Fiber optic multiplex optical transmission system
[NASA-CASE-KSC-11047-1] c74 N77-15826
FIBERS
Process for fiberizing ceramic materials with high fusion temperatures and tensile strength
[NASA-CASE-XNP-00597] c18 N71-23088
Method and apparatus for fluffing, separating, and cleaning fibers
[NASA-CASE-LAR-11224-1] c37 N76-18456
Polymeric electrolytic hygrometer
[NASA-CASE-NPO-13948-1] c35 N77-28470
FIELD EFFECT TRANSISTORS
Frequency to analog converters with unipolar field effect transistor for determining potential charge by pulse duration of input signal
[NASA-CASE-XNP-07040] c08 N71-12500
Voltage controlled, variable frequency relaxation oscillator with MOSFET variable current feed
[NASA-CASE-GSC-10022-1] c10 N71-25882
Circuitry for high input impedance video processor with high noise immunity
[NASA-CASE-NPO-10199] c09 N72-17156
Development and characteristics of data multiplexer circuit using field effect transistors arranged in tree switching configuration
[NASA-CASE-NPO-11333] c08 N72-22162
Single integrated circuit chip with field effect transistor
[NASA-CASE-GSC-10835-1] c09 N72-33205
Radiation hardening of MOS devices by boron --- for stabilizing gate threshold potential of field effect device
[NASA-CASE-GSC-11425-1] c76 N74-20329
Stored charge transistor
[NASA-CASE-NPO-11156-2] c33 N75-31331
Field effect transistor and method of construction thereof
[NASA-CASE-MFS-23312-1] c33 N76-26394
FIELD EMISSION
Electrode with multiple columnar conductors for limiting field emission current
[NASA-CASE-ERC-10015-2] c10 N72-27246
FILAMENT WINDING
Tool attachment for spreading or moving away loose elements from terminal posts during winding of filamentary elements
[NASA-CASE-XMF-02107] c15 N71-10809
Fabrication of filament wound propellant tank for cryogenic storage
[NASA-CASE-XLE-03803-2] c15 N71-17651
Twisted wire or tube superconductor for filament windings
[NASA-CASE-LEW-11015] c26 N73-32571
Method of making reinforced composite structure
[NASA-CASE-LEW-12619-1] c24 N77-19171
FILAMENTS
Refractory filament series circuitry for radiant heater
[NASA-CASE-XLE-00387] c33 N70-34812
Controlled diffusion reaction process for masking substrate of twisted multifilament superconductive ribbon
[NASA-CASE-LEW-11726-1] c26 N73-26752
FILLERS
Filling honeycomb matrix with deaerated paste filler
[NASA-CASE-XMS-01108] c15 N69-24322
FILM COOLING
Multislot film cooled pyrolytic graphite rocket nozzle
[NASA-CASE-XNP-04389] c28 N71-20942
FILMS
Apparatus for obtaining isotropic irradiation on film emulsion from parallel radiation source
[NASA-CASE-MFS-20095] c24 N72-11595
Method and apparatus for measurement of trap density and energy distribution in dielectric films
[NASA-CASE-NPO-13443-1] c76 N76-20994
FILTERS
Development of filter system for control of outgas contamination in vacuum conditions using absorbent beds of molecular sieve zeolite, silica gel, and charcoal
[NASA-CASE-MFS-14711] c15 N71-26185
Heated tungsten filter for removing oxygen impurities from cesium
[NASA-CASE-XNP-04262-2] c17 N71-26773
Centrifugal lyophobic separator
[NASA-CASE-LAR-10194-1] c34 N74-30608
FINS
Thrust and attitude control apparatus using jet nozzle in movable canard surface or fin configuration
[NASA-CASE-XLE-03583] c31 N71-17629
Deployable flexible ventral fins for use as an emergency spin recovery device in aircraft
[NASA-CASE-LAR-10753-1] c08 N74-30421
FIRE PREVENTION
Hydrogen fire blink detector for high altitude rocket or ground installation
[NASA-CASE-MFS-15063] c14 N72-25412
Method and apparatus for checking fire detectors
[NASA-CASE-GSC-11600-1] c35 N74-21019
FIREPROOFING
Fireproof potassium silicate coating composition, insoluble in water after application
[NASA-CASE-GSC-10072] c18 N71-14014
Intumescent paint containing nitrile rubber for fire protection
[NASA-CASE-ARC-10196-1] c18 N73-13562
Para-benzoquinone dioxime and concentrated mineral acid processed to yield intumescent or fire resistant, heat insulating materials
[NASA-CASE-ARC-10304-1] c18 N73-26572
Flexible fire retardant polyisocyanate modified neoprene foam --- for thermal protective devices
[NASA-CASE-ARC-10180-1] c27 N74-12814
Non-flammable elastomeric fiber from a fluorinated elastomer and containing an halogenated flame retardant
[NASA-CASE-MSC-14331-1] c27 N76-24405
FIRES
Device for generating and controlling combustion products for testing of fire detection system
[NASA-CASE-GSC-11095-1] c14 N72-10375
Device for detecting hydrogen fires onboard high altitude rockets
[NASA-CASE-MFS-13130] c10 N72-17173
FIRING (IGNITING)
Contamination free separation nut eliminating combustion products from ambient surroundings generated by squib firing
[NASA-CASE-XGS-01971] c15 N71-15922
FISSIONABLE MATERIALS
Nuclear gaseous reactor for heating working fluid to high temperatures
[NASA-CASE-XLE-00321] c22 N70-34572
FITTINGS
Design and development of quick release connector
[NASA-CASE-XLA-01141] c15 N71-13789
Development and characteristics of strainer for flared tube fitting
[NASA-CASE-XLA-05056] c15 N72-11389
FIXED WINGS
Design of supersonic aircraft with novel fixed, swept wing planform
[NASA-CASE-XLA-04451] c02 N71-12243
FIXTURES
Tool for use in lifting pin supported objects
[NASA-CASE-NPO-13157-1] c37 N74-32918
Apparatus for positioning modular components on a vertical or overhead surface
[NASA-CASE-LAR-11465-1] c37 N76-21554
FLAME PROBES
Flame detector operable in presence of proton radiation
[NASA-CASE-MFS-21577-1] c19 N74-29410
FLAME RETARDANTS
Flame retardant elastomeric compositions
[NASA-CASE-MSC-14331-2] c27 N76-24408
Flame retardant elastomeric compositions
[NASA-CASE-MSC-14331-3] c27 N76-24409
Flame-resistant liquid oxygen compatible neoprene rubber composition
[NASA-CASE-KSC-11020-1] c27 N77-23267
FLAME SPRAYING
Flame or plasma spraying for molybdenum coating of carbon or graphite surfaces to prevent oxidative corrosion

[NASA-CASE-XLA-00302] c15 N71-16077
Modification of polyurethanes with alkyl halide resins, inorganic salts, and encapsulated volatile and reactive halogen for fuel fire control
[NASA-CASE-ARC-10098-1] c06 N71-24739
Method of making pressure tight seal for super alloy
[NASA-CASE-LAR-10170-1] c37 N74-11301

FLAMES
Anodizing method for providing metal surfaces with temperature reducing coatings against flames
[NASA-CASE-XLE-00035] c33 N71-29151
Modulated hydrogen ion flame detector
[NASA-CASE-ARC-10322-1] c35 N76-18403

FLAMMABILITY
Flammability test chamber for testing materials in certain predetermined environments
[NASA-CASE-KSC-10126] c11 N71-24985
Development of apparatus for testing burning rate and flammability of materials
[NASA-CASE-XMS-09690] c33 N72-25913

FLANGES
Cassegrain antenna subreflector flange for suppressing ground noise and increasing antenna transmitting efficiency
[NASA-CASE-XNP-00683] c09 N70-35425
Light baffle with oblate hemispheroid surface and shading flange
[NASA-CASE-NPO-10337] c14 N71-15604
Flanged major modular assembly jig
[NASA-CASE-MSC-19372-1] c39 N76-31562

FLAPS (CONTROL SURFACES)
Upper surface, external flow, jet-augmented flap configuration for high wing jet aircraft for noise reduction
[NASA-CASE-XLA-00087] c02 N70-33332
Assembly for opening flight capsule stabilizing and decelerating flaps with reference to capsule recovery
[NASA-CASE-XMF-00641] c31 N70-36410
Direct lift control system having flaps with slots adjacent to their leading edge and particularly adapted for lightweight aircraft
[NASA-CASE-LAR-10249-1] c02 N71-26110
Reversed ccwl flap inlet thrust augmentor --- with adjustable airfoil
[NASA-CASE-ARC-10754-1] c07 N75-24736

FLARED BODIES
Development and characteristics of strainer for flared tube fitting
[NASA-CASE-XLA-05056] c15 N72-11389

FLAT CONDUCTORS
Method of making molded electric connector for use with flat conductor cables
[NASA-CASE-XMF-03498] c15 N71-15986
Shielded flat conductor cable fabricated by electroless and electrolytic plating
[NASA-CASE-MFS-13687] c09 N71-28691
Shielded flat conductor cable of ribbonlike wires laminates in thin flexible insulation
[NASA-CASE-MFS-13687-2] c09 N72-22198
Separable flat cable connector with isolated electrical contacts
[NASA-CASE-MFS-20757] c09 N72-28225

FLAT PLATES
Reduced gravity liquid configuration simulator to study propellant behavior in rocket fuel tanks
[NASA-CASE-XLE-02624] c12 N69-39988
Exponential horn, copper plate, magnetic hammer, and anvil in apparatus for making diamonds
[NASA-CASE-MFS-20698] c15 N72-20446
Heat transfer device
[NASA-CASE-MFS-22938-1] c34 N76-18374
Flat-plate heat pipe
[NASA-CASE-GSC-11998-1] c34 N77-32413

FLEXIBILITY
Weatherproof helix antenna
[NASA-CASE-XKS-08485] c07 N71-19493
Flexible bellows joint shielding sleeve for propellant transfer pipelines
[NASA-CASE-XNP-01855] c15 N71-28937
Flexible joint for pressurizable garment
[NASA-CASE-MSC-11072] c54 N74-32546
Adjustable securing base
[NASA-CASE-MSC-19666-1] c37 N76-31529
Nozzle extraction process and handlemeter for measuring handle
[NASA-CASE-LAR-12147-1] c27 N77-10198

FLEXIBLE BODIES
Flexible backup bar for welding awkwardly shaped structures
[NASA-CASE-XMF-00722] c15 N70-40204
Characteristics of hermetically sealed electric switch with flexible operating capability
[NASA-CASE-XNP-09808] c09 N71-12518
Flexible composite membrane structure impervious to extremely reactive chemicals in rocket propellants
[NASA-CASE-XNP-08837] c18 N71-16210
Development and characteristics of self supporting space vehicle
[NASA-CASE-XLA-00117] c31 N71-17680
Design and development of flexible tunnel for use by spacecrews in performing extravehicular activities
[NASA-CASE-MSC-12243-1] c05 N71-24728
Vibration control of flexible bodies in steady accelerating environment
[NASA-CASE-LAR-10106-1] c15 N71-27169
Flexible barrier membrane comprising porous substrate and incorporating liquid gallium or indium metal used as sealant barriers for spacecraft walls and pumping liquid propellants
[NASA-CASE-XNP-08881] c17 N71-28747
Development of device for simulating cyclic thermal loading of flexible materials by application of mechanical stresses and deformations
[NASA-CASE-LAR-10270-1] c32 N72-25877
Deployable flexible ventral fins for use as an emergency spin recovery device in aircraft
[NASA-CASE-LAR-10753-1] c08 N74-30421
Internally supported flexible duct joint --- device for conducting fluids in high pressure systems
[NASA-CASE-MFS-19193-1] c37 N75-19686

FLEXIBLE WINGS
Aeroflexible wing structure with air scoop for inflating stiffeners with ram air
[NASA-CASE-XLA-06095] c01 N69-39981
Deployment system for flexible wing with rigid superstructure
[NASA-CASE-XLA-01220] c02 N70-41863
Development and characteristics of control system for flexible wings
[NASA-CASE-XLA-06958] c02 N71-11038

FLEXING
Two degree inverted flexure from single block of material
[NASA-CASE-ARC-10345-1] c15 N73-12488

FLIGHT
Flow meter for measuring stagnation pressure in boundary layer around high speed flight vehicle
[NASA-CASE-XFR-02007] c12 N71-24692

FLIGHT ALTITUDE
Surface based altitude measuring system for accurately measuring altitude of airborne vehicle
[NASA-CASE-ERC-10412-1] c09 N73-12211
Terminal guidance system --- for guiding aircraft into preselected altitude and/or heading at terminal point
[NASA-CASE-FRC-10049-1] c04 N74-13420

FLIGHT CONTROL
Aircraft indicator for pilot control of takeoff roll, climbout path and vertical flight path in poor visibility conditions
[NASA-CASE-XLA-00487] c14 N70-40157
Two axis flight controller with potentiometer control shafts directly coupled to rotatable ball members
[NASA-CASE-XFR-04104] c03 N70-42073
Development of aircraft control system with high performance electrically controlled and mechanically operated hydraulic valves for precise flight operation
[NASA-CASE-XAC-00048] c02 N71-29128
Development of flight simulator system to show position of joystick displacement
[NASA-CASE-NPO-11497] c08 N73-25206
Solid state controller three axes controller
[NASA-CASE-MSC-12394-1] c08 N74-10942
G-load measuring and indicator apparatus --- for aircraft

[NASA-CASE-ARC-10806] c06 N74-27872
Integrated lift/drag controller for aircraft
[NASA-CASE-ARC-10456-1] c05 N75-12930
Servo valve
[NASA-CASE-LAR-11643-1] c37 N75-13268
Deploy/release system --- model aircraft flight control
[NASA-CASE-LAR-11575-1] c02 N76-16014

FLIGHT CREWS
Survival couch for aircraft or spacecraft crews
[NASA-CASE-XIA-00118] c05 N70-33285

FLIGHT INSTRUMENTS
Crosswind landing gear position indicator
[NASA-CASE-LAR-11941-1] c06 N77-20098

FLIGHT RECORDERS
Event recorder with constant speed motor which rotates recording disk
[NASA-CASE-XIA-01832] c14 N71-21006

FLIGHT SAFETY
Aerial capsule emergency separation device using jettisonable towers
[NASA-CASE-XLA-00115] c03 N70-33343
Development and characteristics of electronic signalling system and data processing equipment for warning systems to avoid midair collisions between aircraft
[NASA-CASE-LAR-10717-1] c21 N73-30641

FLIGHT SIMULATION
Lunar landing flight research vehicle
[NASA-CASE-XFR-00929] c31 N70-34966
Television simulation for aircraft and space flight
[NASA-CASE-XFR-03107] c09 N71-19449
Electrical circuit selection device for simulating stage separation of flight vehicle
[NASA-CASE-XMS-04631] c10 N71-23663

FLIGHT SIMULATORS
Centrifuge mounted motion simulator with elevator mechanism
[NASA-CASE-XAC-00399] c11 N70-34815
Table structure and rotating magnet system simulating gravitational forces on spacecraft and displaying trajectories between Earth, Venus, and Mercury
[NASA-CASE-XNP-00708] c14 N70-35394
Wind tunnel test section for simulating high Reynolds number over transonic speed range
[NASA-CASE-NFS-20509] c11 N72-17183
Development of flight simulator system to show position of joystick displacement
[NASA-CASE-NPO-11497] c08 N73-25206
Apparatus for applying simulator g-forces to an arm of an aircraft simulator pilot
[NASA-CASE-LAR-10550-1] c09 N74-30597
Full color hybrid display for aircraft simulators
[NASA-CASE-ARC-10903-1] c09 N76-10148
Vehicle simulator binocular multiplanar visual display system
[NASA-CASE-ARC-10808-1] c09 N76-24280
A seat cushion to provide realistic acceleration cues for aircraft simulator pilots
[NASA-CASE-LAR-12149-1] c54 N77-31787

FLIGHT TESTS
Device for measuring drag forces in flight tests
[NASA-CASE-XLA-00113] c14 N70-33386

FLIGHT VEHICLES
Construction of leading edges of surfaces for aerial vehicles performing from subsonic to above transonic speeds
[NASA-CASE-XLA-01486] c01 N71-23497
Electro-optical attitude sensing device for landing approach of flight vehicle
[NASA-CASE-XMS-01994-1] c14 N72-17326
Design and development of active control system for air cushion vehicle to reduce or eliminate effects of excessive vertical vibratory acceleration
[NASA-CASE-LAR-10531-1] c02 N73-13023

FLIP-FLOPS
Bistable multivibrator circuits operating at high speed and low power dissipation
[NASA-CASE-XGS-00823] c10 N71-15910
Stepping motor control apparatus exciting windings in proper time sequence to cause motor to rotate in either direction
[NASA-CASE-GSC-10366-1] c10 N71-18772
Interrogator and current driver circuit for combination with transistor flip-flop circuit
[NASA-CASE-XCS-03058] c10 N71-19547

FLOATING
Floating baffle for tank drain
[NASA-CASE-KSC-10639] c15 N73-26472
Modification of one man life raft
[NASA-CASE-LAR-10241-1] c54 N74-14845

FLOATS
Magnetically centered liquid column float
[NASA-CASE-XAC-00030] c14 N70-34820

FLOTATION
Development and characteristics of rescue litter with inflatable flotation device for water rescue application
[NASA-CASE-XMS-04170] c05 N71-22748

FLOW DIRECTION INDICATORS
Electric circuit for reversing direction of current flow
[NASA-CASE-XNP-00952] c10 N71-23271
Flow angle sensor and remote readout system for use with cryogenic fluids
[NASA-CASE-XLE-04503] c14 N71-24864

FLOW DISTRIBUTION
Multiple orifice fluid flow control valve to provide different flow patterns
[NASA-CASE-ERC-10208] c15 N70-10867
Photographing surface flow patterns on wind tunnel test models
[NASA-CASE-XLA-01353] c14 N70-41366
Color photointerpretation of interference colors reflected from thin film oil-coated components in moving gases for gas flow visualization
[NASA-CASE-XNP-01779] c12 N71-20815
Dual wavelength scanning Doppler velocimeter --- without perturbation of flow fields
[NASA-CASE-ARC-10637-1] c35 N75-16783
Controlled separation combustor --- airflow distribution in gas turbine engines
[NASA-CASE-LEW-11593-1] c20 N76-14190

FLOW MEASUREMENT
Collapsible flow test device for obstructed passages
[NASA-CASE-XMS-04917] c14 N69-24257
Simulated fuel assembly-type flow measurement apparatus for coolant flow in reactor core
[NASA-CASE-XLE-00724] c14 N70-34669
Mass flow meter containing beta source for measuring nonpolar liquid flow
[NASA-CASE-NFS-20485] c14 N72-11365
Instrument for measuring magnitude and direction of flow velocity in flow field
[NASA-CASE-LAR-10855-1] c14 N73-13415
Flow measuring apparatus
[NASA-CASE-LEW-12078-1] c35 N75-30503
Method for making a hot wire anemometer and product thereof
[NASA-CASE-ARC-10900-1] c35 N77-24454

FLOW REGULATORS
Antibacklash circuit for hydraulic drive system
[NASA-CASE-XNP-01020] c03 N71-12260
Tubular flow restrictor for gas flow control in pipeline
[NASA-CASE-NPO-10117] c15 N71-15608
Fluid flow control valve for regulating fluids in molecular quantities
[NASA-CASE-XLE-00703] c15 N71-15967
Control of gas flow from pressurized vessel by thermal expansion of metal plug
[NASA-CASE-NPO-10298] c12 N71-17661
Semitoroidal diaphragm cavitating flow control valve
[NASA-CASE-XNP-09704] c12 N71-18615
Describing device for changing flow rate of fluid in duct in response to change in temperature
[NASA-CASE-NFS-14259] c15 N71-19213
Pneumatic servoamplifier for controlling flow regulation
[NASA-CASE-MSC-12121-1] c15 N71-27147
Gas flow control device, including housing and input port
[NASA-CASE-NPO-11479] c15 N73-13462
Flow compensating pressure regulator --- for ophthalmic applications
[NASA-CASE-LEW-12718-1] c35 N77-20408
Pressure modulating value
[NASA-CASE-MSC-14905-1] c37 N77-28487

FLOW STABILITY
Detonation reaction engine comprising outer housing enclosing pair of inner walls for continuous flow

[NASA-CASE-XMF-06926] c28 N71-22983
Apparatus for establishing flow of a fluid mass having a known velocity
[NASA-CASE-MFS-21424-1] c34 N74-27730
FLOW VELOCITY
Continuous variation of propellant flow and thrust by application of liquid foam flow theory to injection orifice
[NASA-CASE-XLE-00177] c28 N70-40367
Measuring density of single and two-phase cryogenic fluids in rocket fuel tanks
[NASA-CASE-XLE-00688] c14 N70-41330
Device for adding water to high velocity exhaust jets to reduce velocity, noise, and temperature
[NASA-CASE-XMF-01813] c28 N70-41582
Positive displacement flowmeter for measuring extremely low flows of fluid with self calibrating features
[NASA-CASE-XMF-02822] c14 N70-41994
Zeta potential flowmeter for measuring very slow to very high flows
[NASA-CASE-XNP-06509] c14 N71-23226
Device for simultaneously determining density, velocity, and temperature of streaming gas
[NASA-CASE-XLA-03375] c16 N71-24074
Doppler shifted laser beam as fluid velocity sensor
[NASA-CASE-XAC-10770-1] c16 N71-24828
Flowmeters for sensing low fluid flow rate and pressure for application to respiration rate studies
[NASA-CASE-PRC-10022] c12 N71-26546
Force balanced throttle valve for fuel control in rocket engines
[NASA-CASE-NPO-10808] c15 N71-27432
Flow rate switch for detecting variations in fluid flow velocity through conduits of pressurized systems
[NASA-CASE-NPO-10722] c09 N72-20199
Instrument for measuring magnitude and direction of flow velocity in flow field
[NASA-CASE-LAR-10855-1] c14 N73-13415
Apparatus for establishing flow of a fluid mass having a known velocity
[NASA-CASE-MFS-21424-1] c34 N74-27730
Wind tunnel flow generation section
[NASA-CASE-ARC-10710-1] c09 N75-12969
Combined dual scatter, local oscillator laser Doppler velocimeter
[NASA-CASE-ARC-10642-1] c36 N76-14447
System for measuring three fluctuating velocity components in a turbulently flowing fluid
[NASA-CASE-ARC-10974-1] c34 N77-27345
FLOW VISUALIZATION
Method and apparatus for measuring shock layer radiation distribution about high velocity objects
[NASA-CASE-XAC-02970] c14 N69-39896
Color photointerpretation of interference colors reflected from thin film oil-coated components in moving gases for gas flow visualization
[NASA-CASE-XMF-01779] c12 N71-20815
FLOWMETERS
Collapsible flow test device for obstructed passages
[NASA-CASE-XMS-04917] c14 N69-24257
Simulated fuel assembly-type flow measurement apparatus for coolant flow in reactor core
[NASA-CASE-XLE-00724] c14 N70-34669
Positive displacement flowmeter for measuring extremely low flows of fluid with self calibrating features
[NASA-CASE-XMF-02822] c14 N70-41994
Heated element sensor for fluid flow detection in thermal conductive conduit with adaptive means to determine flow rate and direction
[NASA-CASE-MSC-12084-1] c12 N71-17569
Describing laser Doppler velicometer for measuring mean velocity and turbulence of fluid flow
[NASA-CASE-MFS-20386] c21 N71-19212
Zeta potential flowmeter for measuring very slow to very high flows
[NASA-CASE-XNP-06509] c14 N71-23226
Flow meter for measuring stagnation pressure in boundary layer around high speed flight vehicle
[NASA-CASE-XFR-02007] c12 N71-24692
Doppler shifted laser beam as fluid velocity sensor
[NASA-CASE-XAC-10770-1] c16 N71-24828
Flowmeters for sensing low fluid flow rate and pressure for application to respiration rate studies
[NASA-CASE-PRC-10022] c12 N71-26546
Mass flow meter containing beta source for measuring nonpolar liquid flow
[NASA-CASE-MFS-20485] c14 N72-11365
Respiratory analysis system to determine gas flow rate and frequency of respiration and expiration cycles in real time
[NASA-CASE-MSC-13436-1] c05 N73-32015
Low power electromagnetic flowmeter system producing zero output signal for zero flow
[NASA-CASE-ARC-10362-1] c14 N73-32326
Electromagnetic flow rate meter --- for liquid metals
[NASA-CASE-LEW-10981-1] c35 N74-21018
Leak detector
[NASA-CASE-MFS-21761-1] c35 N75-15931
Flow separation detector
[NASA-CASE-ARC-11046-1] c35 N76-28535
System for measuring three fluctuating velocity components in a turbulently flowing fluid
[NASA-CASE-ARC-10974-1] c34 N77-27345
FLUID AMPLIFIERS
Fluid jet amplifier with fluid from jet nozzle deflected by inlet pressure
[NASA-CASE-XLE-03512] c12 N69-21466
Multiple vortex amplifier system as fluid valve
[NASA-CASE-XMF-04709] c15 N71-15609
Shear modulated fluid amplifier of high pressure hydraulic vortex amplifier type
[NASA-CASE-MFS-10412] c12 N71-17578
Development of vortex fluid amplifier for throttling rocket exhaust
[NASA-CASE-LEW-10374-1] c28 N73-13773
Fluid pressure amplifier and system
[NASA-CASE-LAR-10868-1] c33 N74-11050
FLUID FILMS
Journal bearings --- for lubricant films
[NASA-CASE-LEW-11076-1] c37 N74-21061
Fluid journal bearings
[NASA-CASE-LEW-11076-4] c37 N76-15461
Fluid seal for rotating shafts
[NASA-CASE-LEW-11676-1] c37 N76-22541
FLUID FILTERS
Absorbent apparatus for separating gas from liquid-gas stream used in environmental control under zero gravity conditions
[NASA-CASE-XMS-01492] c05 N70-41297
Compact high pressure filter for rocket fuel lines
[NASA-CASE-XNP-00732] c28 N70-41447
Development of liquid separating system using capillary device connected to flexible bladder storage chamber
[NASA-CASE-XMS-13052] c14 N71-20427
Fluid control apparatus and method
[NASA-CASE-LAR-11110-1] c34 N75-26282
Filter regeneration systems --- a system for regenerating a system filter in a fluid flow line
[NASA-CASE-MSC-14273-1] c34 N75-33342
Quick disconnect filter coupling
[NASA-CASE-MFS-22323-1] c37 N76-14463
FLUID FLOW
Fluid jet amplifier with fluid from jet nozzle deflected by inlet pressure
[NASA-CASE-XLE-03512] c12 N69-21466
Pneumatic system for cyclic control of fluid flow in pneumatic device
[NASA-CASE-XMS-04843] c03 N69-21469
Multiple orifice fluid flow control valve to provide different flow patterns
[NASA-CASE-ERC-10208] c15 N70-10867
Conical valve plug for use with reactive cryogenic fluids
[NASA-CASE-XLE-00715] c15 N70-34859
Pressure regulating system with high pressure fluid source, adapted to maintain constant downstream pressure
[NASA-CASE-XNP-00450] c15 N70-38603
Antiflutter check valve for use with high pressure fluid flow
[NASA-CASE-XNP-01152] c15 N70-41811
Inductive liquid level detection system
[NASA-CASE-XLE-01609] c14 N71-10500
Multiple vortex amplifier system as fluid valve
[NASA-CASE-XMF-04709] c15 N71-15609

Heated element sensor for fluid flow detection in thermal conductive conduit with adaptive means to determine flow rate and direction
[NASA-CASE-MSC-12084-1] c12 N71-17569
Throttle valve for regulating fluid flow volume
[NASA-CASE-XNP-09698] c15 N71-18580
Photometric flow meter with comparator reference means
[NASA-CASE-XGS-01331] c14 N71-22996
Combination pressure transducer-calibrator assembly for measuring fluid
[NASA-CASE-XNP-01660] c14 N71-23036
Valve assembly for controlling simultaneously more than one fluid flow, and having stable qualities under loads
[NASA-CASE-XMS-05890] c09 N71-23191
Flowmeters for sensing low fluid flow rate and pressure for application to respiration rate studies
[NASA-CASE-FRC-10022] c12 N71-26546
Control valve for switching main stream of fluid from one stable position to another by means of electrohydrodynamic forces
[NASA-CASE-NPO-10416] c12 N71-27332
Fluid control jet amplifiers
[NASA-CASE-XLE-09341] c12 N71-28741
Mass flow meter containing beta source for measuring nonpolar liquid flow
[NASA-CASE-MFS-20485] c14 N72-11365
Flow rate switch for detecting variations in fluid flow velocity through conduits of pressurized systems
[NASA-CASE-NPO-10722] c09 N72-20199
Torsional disconnect device for releasably coupling distal ends of fluid conduits
[NASA-CASE-NPO-10704] c15 N72-20445
Capacitive tank gaging device for monitoring one constituent of two phase fluid by sensing dielectric constant
[NASA-CASE-MFS-21629] c14 N72-22442
Transferring liquid nitrogen through vacuum chamber to cryopanel
[NASA-CASE-LAR-10031] c15 N72-22484
Design and development of device to prevent geysering during convective circulation of cryogenic fluids
[NASA-CASE-KSC-10615] c15 N73-12486
Design and development of thermomechanical pump for transmitting warming fluid through fluid circuit to control temperature of spacecraft instrumentation
[NASA-CASE-NPO-11417] c15 N73-24513
Flow control valve --- for high temperature fluids
[NASA-CASE-NPO-11951-1] c37 N74-21065
Apparatus for establishing flow of a fluid mass having a known velocity
[NASA-CASE-MFS-21424-1] c34 N74-27730
Internally supported flexible duct joint --- device for conducting fluids in high pressure systems
[NASA-CASE-MFS-19193-1] c37 N75-19686
Flow measuring apparatus
[NASA-CASE-LEW-12078-1] c35 N75-30503
Filter regeneration systems --- a system for regenerating a system filter in a fluid flow line
[NASA-CASE-MSC-14273-1] c34 N75-33342
Combined dual scatter, local oscillator laser Doppler velocimeter
[NASA-CASE-ARC-10642-1] c36 N76-14447
Externally supported internally stabilized flexible duct joint
[NASA-CASE-MFS-19194-1] c37 N76-14460
Fluid valve assembly
[NASA-CASE-MSC-12731-1] c37 N76-26511
Positive isolation disconnect
[NASA-CASE-MSC-16043-1] c37 N77-15397
Vortex generator for controlling the dispersion of effluents in a flowing liquid
[NASA-CASE-LAR-12045-1] c34 N77-24423
Pseudo-backscatter laser Doppler velocimeter employing antiparallel-reflector in the forward direction
[NASA-CASE-ARC-10970-1] c36 N77-25501
Accumulator
[NASA-CASE-MFS-19287-1] c34 N77-30399

FLUID INJECTION

Solid propellant ignition with hypergolic fluid injected to predetermined portions of propellant
[NASA-CASE-XLE-00207] c28 N70-33375
Method for igniting solid propellant rocket motors by injecting hypergolic fluids
[NASA-CASE-XLE-01988] c27 N71-15634
Constructing fluid spike nozzle to eliminate heat transfer and high temperature problems inherent in physical spikes
[NASA-CASE-XGS-01143] c31 N71-15647
Method and apparatus for producing fine particles in cryogenic liquid bath for gelled rocket propellants
[NASA-CASE-NPO-10250] c23 N71-16212
Fluid transferring system design for purging toxic, corrosive, or noxious fluids and fumes from materials handling equipment for cleansing and accident prevention
[NASA-CASE-XMS-01905] c12 N71-21089
Tertiary flow injection system for thrust vectoring of propulsive nozzle flow
[NASA-CASE-MFS-20831] c28 N71-29153
Programmable physiological infusion
[NASA-CASE-ARC-10447-1] c52 N74-22771

FLUID JETS

Directed fluid stream for propeller blade loading control
[NASA-CASE-XAC-00139] c02 N70-34856

FLUID LOGIC

Logic AND gate for fluid circuits
[NASA-CASE-XLA-07391] c12 N71-17579

FLUID MECHANICS

Fluid leakage detection system with automatic monitoring capability
[NASA-CASE-LAR-10323-1] c12 N71-17573
Development and characteristics of parallel plate viscometer for determination of absolute viscosity of liquids and viscoelastic materials
[NASA-CASE-NPO-11387] c14 N73-14429

FLUID POWER

Fluid power transmission and gas bearing system
[NASA-CASE-XMS-01445] c12 N71-16031
Low friction gas bearing system for fluid power transmission to bearing-supported payload
[NASA-CASE-ERC-10097] c15 N71-28465

FLUID ROTOR GYROSCOPES

Piezoelectric pump for supplying fluid at high frequencies to gyroscope fluid suspension system
[NASA-CASE-XNP-05429] c26 N71-21824

FLUID SWITCHING ELEMENTS

Two phase fluid pressurization system for propellant tank
[NASA-CASE-MSC-12390] c27 N71-29155

FLUIDIC CIRCUITS

Using molds for fabricating individual fluid circuit components
[NASA-CASE-XLA-07829] c15 N72-16329
Flow measuring apparatus
[NASA-CASE-LEW-12078-1] c35 N75-30503

FLUIDICS

Fluidic-thermochromic display device
[NASA-CASE-ERC-10031] c12 N71-18603
Plasma-fluidic hybrid display system combining high brightness and memory characteristics
[NASA-CASE-ERC-10100] c09 N71-33519
Continuous gas flow control by fluidic proportional thruster system
[NASA-CASE-ARC-10106-1] c28 N72-22769
Fluid pressure amplifier and system
[NASA-CASE-LAR-10868-1] c33 N74-11050

FLUIDS

Automated fluid chemical analyzer for microchemical analysis of small quantities of liquids by use of selected reagents and analyzer units
[NASA-CASE-XNP-09451] c06 N71-26754
Detection of bacteria in biological fluids and foods
[NASA-CASE-GSC-11533-1] c14 N73-13435
Fluid polydimethylsiloxane resin with low outgassing properties in cured state
[NASA-CASE-GSC-11358-1] c06 N73-26100
Apparatus for measuring a sorbate dispersed in a fluid stream
[NASA-CASE-ARC-10896-1] c34 N75-32389
Automatic fluid dispenser
[NASA-CASE-ARC-10820-1] c54 N75-32766
Fluid mass sensor for a zero gravity environment
[NASA-CASE-MSC-14653-1] c35 N77-19385

FLUORESCENCE

Spectrophotofluorometer with 3-dimensional

display to identify fluorescence spectra of carcinogenic and noncarcinogenic hydrocarbons [NASA-CASE-XGS-01231] c14 N70-41676
Sealed fluorescent tube light unit capable of connection with other units to form string of work lights [NASA-CASE-XMS-05932] c09 N71-26787
Chromato-fluorographic drug detector --- device for detecting and recording fluorescent properties of materials [NASA-CASE-ARC-10633-1] c25 N74-26947
Fluorescence detector for monitoring atmospheric pollutants [NASA-CASE-NPO-13231-1] c45 N75-27585

FLUORIDES
Self lubricating fluoride-metal composite materials for outer space applications [NASA-CASE-XLE-08511] c18 N71-23710
Development of fluoride coating to prevent oxidation of beryllium surfaces at elevated temperatures [NASA-CASE-LEW-10327] c17 N71-33408
Perfluoro polyether acyl fluorides [NASA-CASE-NPO-10765] c06 N72-20121

FLUORINATION
Fluorinated polyurethanes produced by reacting hydroxy terminated perfluoro polyether with diisocyanate [NASA-CASE-NPO-10767-2] c06 N72-27151
Fluorinated esters of polycarboxylic acid and lubricating compositions for use at extreme temperature [NASA-CASE-MFS-21040-1] c06 N73-30098

FLUORINE
Reaction of polyperfluoropolyenes with fluorine to produce saturated polymer chain or create reactive sites on chain [NASA-CASE-NPO-10862] c06 N72-22107

FLUORO COMPOUNDS
Synthesis of polyfluorobutadiene by polymerization of perfluorobutadiene with diisopropyl peroxydicarbonate [NASA-CASE-NPO-10863] c06 N70-11251
Low pressure perfluorobutadiene polymerization with peroxide catalysts [NASA-CASE-NPO-10447] c06 N70-11252
Preparation of fluorohydroxy ethers by reacting fluoroalkylene oxides with alkali salt of polyfluoroalkylene diol [NASA-CASE-MFS-10507] c06 N73-30101
Preparation of fluorinated polyethers from 2-hydro-perhalohexapropyl alcohols [NASA-CASE-MFS-11492] c06 N73-30102
Chemical and elastic properties of fluorinated polyurethanes [NASA-CASE-NPO-10767-1] c06 N73-33076
Utilization of oxygen difluoride for syntheses of fluoropolymers [NASA-CASE-NPO-12061-1] c27 N76-16228

FLUOROCARBONS
Electrically conductive fluorocarbon polymers [NASA-CASE-XLE-06774-2] c06 N72-25150

FLUTTER
Antiflutter check valve for use with high pressure fluid flow [NASA-CASE-XNP-01152] c15 N70-41811
Development of aerodynamic control system to control flutter over large range of oscillatory frequencies using stability augmentation techniques [NASA-CASE-LAR-10682-1] c02 N73-26004

FLUX (RATE)
Solid state device for mapping flux and power in nuclear reactor cores [NASA-CASE-XLE-00301] c14 N70-36808
Fluxgate magnetometer for measuring magnetic field along two axes using one sensor [NASA-CASE-GSC-10441-1] c14 N71-27325

FLUX DENSITY
Particle beam power density detection and measurement apparatus [NASA-CASE-XLE-00243] c14 N70-38602

FLUXES
Hydrazine monoperfluoro alkanoate solder flux leaving corrosion resistant coating, for metals such as copper [NASA-CASE-XNP-03459-2] c18 N71-15688
Metal soldering with hydrazine monoperfluoro alkanoate for corrosion resistant coatings [NASA-CASE-XNP-03459] c15 N71-21078

FLYWHEELS
An improved rotatable mass for a flywheel [NASA-CASE-MFS-23051-1] c37 N76-13500
Safety flywheel [NASA-CASE-HQN-10888-1] c37 N77-22484

FOAMS
Plastic foam generator for space vehicle instrument payload package flotation in water landing [NASA-CASE-XLA-00838] c03 N70-36778
Continuous variation of propellant flow and thrust by application of liquid foam flow theory to injection orifice [NASA-CASE-XLE-00177] c28 N70-40367
Development of foam insulation for filament wound cryogenic storage tank [NASA-CASE-XLE-03803] c15 N71-23816
Carboxyl terminated polyester prepolymers and foams produced from prepolymers and materials [NASA-CASE-NPO-10596] c06 N71-25929
Storage stable, thermally activated foaming compositions for erecting and rigidizing mechanisms of thin sheet solar collectors [NASA-CASE-LAR-10373-1] c18 N71-26155
Method of making solid propellant rocket motor having reliable high altitude capabilities, long shelf life, and capable of firing with nozzle closure with foamed plastic permanent mandrel [NASA-CASE-XLA-04126] c28 N71-26779
Foam insulation thickness measuring and injection device for spacecraft applications [NASA-CASE-MFS-20261] c14 N71-27005
Description of method for making homogeneous foamed materials in weightless environment using materials having different physical properties [NASA-CASE-XNP-09902] c15 N72-11387
Polyimide foam for the thermal insulation and fire protection [NASA-CASE-ARC-10464-1] c27 N74-12812
Intumescent composition, foamed product prepared therewith and process for making same [NASA-CASE-ARC-10304-2] c27 N74-27037
Ceramic fiber insulating material and methods of producing same --- product development of foams for thermal insulation [NASA-CASE-MSC-14795-1] c27 N76-15314

FOCUSING
X ray collimating structure for focusing radiation directly onto detector [NASA-CASE-XHQ-04106] c14 N70-40240
Apertured electrode focusing system for ion sources with nonuniform plasma density [NASA-CASE-XNP-03332] c09 N71-10618
Development and characteristics of Petzval type objective including field shaping lens for focusing light of specified wavelength band on curved photoreceptor [NASA-CASE-GSC-10700] c23 N71-30027
Absolute focus locking device for microscopes to maintain set focus for extended time period [NASA-CASE-LAR-10184] c14 N72-22445
Electron beam controller --- using magnetic field to refocus spent electron beam in microwave oscillator tube [NASA-CASE-LEW-11617-1] c33 N74-10195
Automatic focus control for facsimile cameras [NASA-CASE-LAR-11213-1] c35 N75-15014
Multiplate focusing collimator --- for scanning small near radiation sources [NASA-CASE-MFS-20932-1] c35 N75-19616
Magnifying image intensifier [NASA-CASE-GSC-12010-1] c33 N76-23482

FOG
Anti-fog composition --- for prevention of fogging on surfaces such as space helmet visors and windshields [NASA-CASE-MSC-13530-2] c23 N75-14834

FOILS (MATERIALS)
Foil seal between parts moving relative to each other [NASA-CASE-XLE-05130] c15 N69-21362
Method of making an insulation foil [NASA-CASE-LEW-11484-1] c24 N75-33181

FOLDING
Characteristics of device for folding thin flexible sheets into compact configuration

[NASA-CASE-XLA-00137] c15 N70-33180
FOLDING STRUCTURES
Lenticular vehicle with foldable aerodynamic control flaps and reaction jets for operation above and within earth's atmosphere
[NASA-CASE-XGS-00260] c31 N70-37924
Collapsible, space erectable loop antenna system for space vehicle
[NASA-CASE-XMF-00437] c07 N70-40202
Unfolding boom assembly with knuckle joints for positioning equipment for spacecraft
[NASA-CASE-XGS-00938] c32 N70-41367
Foldable conduit capable of springing back as self erecting structural member
[NASA-CASE-XLE-00620] c32 N70-41579
Foldable, double cone and parabolic reflector system for solar ray concentration
[NASA-CASE-XLA-04622] c03 N70-41580
Method for deployment of flexible wing glider from space vehicle with minimum impact and loading
[NASA-CASE-XMS-00907] c02 N70-41630
Development and characteristics of variable sweep wing control system for supersonic aircraft
[NASA-CASE-XLA-03659] c02 N71-11041
Hydraulic actuator design for space deployment of heat radiators
[NASA-CASE-MSC-11817-1] c15 N71-26611
Apparatus and method of assembling building blocks by folding pre-cut flat sheets of material during on-site construction
[NASA-CASE-MSC-12233-1] c15 N72-25454
Folding structure fabricated of rigid panels
[NASA-CASE-XHQ-02146] c18 N75-27040
Variable dihedral shuttle orbiter
[NASA-CASE-LAR-10706-2] c05 N77-31132
FOOD
Detection of bacteria in biological fluids and foods
[NASA-CASE-GSC-11533-1] c14 N73-13435
FORCE
Electromechanical actuator for producing mechanical force and/or motion in response to electrical signals
[NASA-CASE-NPO-11738-1] c09 N73-30185
FORCE DISTRIBUTION
Device for handling heavy loads by distributing forces
[NASA-CASE-XNP-04969] c11 N69-27466
Development of two force component measuring device
[NASA-CASE-XAC-04886-1] c14 N71-20439
Tensile strength testing device having pulley guides for exerting multiple forces on test specimen
[NASA-CASE-XNP-05634] c15 N71-24834
Development and characteristics of device for indicating and recording magnitude of force applied in axial direction
[NASA-CASE-MSC-15626-1] c14 N72-25411
Variable direction force coupler for transmitting force along selectable curve path
[NASA-CASE-MFS-20317] c15 N73-13463
Subminiature insertable force transducer --- including a strain gage to measure forces in muscles
[NASA-CASE-NPO-13423-1] c33 N75-31329
FORMAT
Digital data reformatter/deserializer
[NASA-CASE-NPO-13676-1] c60 N77-24781
FORMATES
Preparation of polyurethane polymer by reacting hydroxy polyformal with organic diisocyanate
[NASA-CASE-MFS-10509] c06 N73-30103
FORMING TECHNIQUES
Apparatus for forming wire grids for electric strain gages
[NASA-CASE-XLE-00023] c15 N70-33330
Hot forming of plastic sheets
[NASA-CASE-XMS-05516] c15 N71-17803
Forming tubes from long thin flat metal strips
[NASA-CASE-XGS-04175] c15 N71-18579
Portable magnetomotive hammer for metal working
[NASA-CASE-XMF-03793] c15 N71-24833
Forming mold for polishing and machining curved solar magnesium reflector with reinforcing ribs
[NASA-CASE-XLE-08917-2] c15 N71-24836
Heat treatment and tooling for forming shapes from thermosetting honeycomb core sheets
[NASA-CASE-NPO-11036] c15 N72-24522
Method of heat treating a formed powder product material
[NASA-CASE-LEW-10805-3] c26 N74-10521
Molding apparatus --- for thermosetting plastic compositions
[NASA-CASE-LAR-10489-2] c31 N74-32920
Process for making sheets with parallel pores of uniform size
[NASA-CASE-GSC-10984-1] c37 N75-26371
Drilled ball bearing with a one piece anti-tipping cage assembly
[NASA-CASE-LEW-11925-1] c37 N75-31446
Apparatus for forming dished ion thruster grids
[NASA-CASE-LEW-11694-2] c37 N76-14461
Method of forming metal hydride films
[NASA-CASE-LEW-12083-1] c26 N76-18262
Acoustic energy shaping
[NASA-CASE-NPO-13802-1] c71 N76-18886
FORMULATIONS
Flame retardant elastomeric compositions
[NASA-CASE-MSC-14331-2] c27 N76-24408
Flame retardant elastomeric compositions
[NASA-CASE-MSC-14331-3] c27 N76-24409
FORWARD SCATTERING
Forward-scatter polarimeter for determining the gaseous depolarization factor in the presence of polluting polydispersed particles
[NASA-CASE-NPO-13756-1] c35 N76-14434
FOUNDATIONS
Base support for expansible and contractible coupling between two members
[NASA-CASE-NPO-11059] c15 N72-17454
Adjustable securing base
[NASA-CASE-MSC-19666-1] c37 N76-31529
FOURIER TRANSFORMATION
Photographic film restoration system using Fourier transformation lenses and spatial filter
[NASA-CASE-MSC-12448-1] c14 N72-20394
Continuous Fourier transform method and apparatus --- for the analysis of simultaneous analog signal components
[NASA-CASE-ARC-10466-1] c60 N75-13539
FRACTIONATION
Purification apparatus for vaporization and fractional distillation of liquids
[NASA-CASE-XNP-08124] c15 N71-27184
FRACTURE MECHANICS
Apparatus for testing metallic and nonmetallic beams or rods by bending at high temperatures in vacuum or inert atmosphere
[NASA-CASE-XLE-01300] c15 N70-41993
FRACTURE STRENGTH
High toughness-high strength iron alloy
[NASA-CASE-LEW-12542-1] c26 N77-24254
FRAMES
Shock absorbing articulated multiple couch assembly
[NASA-CASE-MSC-11253] c05 N71-12343
Pliable frame for sunglasses in emergency survival kits
[NASA-CASE-XMS-06064] c05 N71-23096
Expandable space frames with high expansion to collapse ratio
[NASA-CASE-ERC-10365-1] c31 N73-32749
FRAMING CAMERAS
High speed photo-optical time recorder for indicating time at exposure of each frame of high speed movie camera film
[NASA-CASE-KSC-10294] c14 N72-18411
FREE FLIGHT TEST APPARATUS
Hydraulic support equipment for full scale dynamic testing of large rocket vehicle under free flight conditions
[NASA-CASE-XMF-01772] c11 N70-41677
Hydraulic support apparatus for dynamic testing of space vehicles under near-free flight conditions
[NASA-CASE-XMF-03248] c11 N71-10604
Free flight suspension system for use with aircraft models in wind tunnel tests
[NASA-CASE-XLA-00939] c11 N71-15926
FREEZE DRYING
Rice preparation process consisting of cooking, two freezing-thawing cycles, and then freeze drying
[NASA-CASE-MSC-13540-1] c05 N72-33096

FREEZING
System for and method of freezing biological tissue
[NASA-CASE-GSC-12173-1] c52 N77-27693
FREON
Solar energy power system --- using Freon
[NASA-CASE-MFS-21628-1] c44 N75-32581
FREQUENCIES
Controlled oscillator system with a time dependent output frequency
[NASA-CASE-NPO-11962-1] c33 N74-10194
High efficiency multifrequency feed
[NASA-CASE-GSC-11909] c32 N74-20863
FREQUENCY ANALYZERS
Describing frequency discriminator using digital logic circuits and supplying single binary output signal
[NASA-CASE-MFS-14322] c08 N71-18692
Broadband frequency discriminator with resistive captive inductive networks
[NASA-CASE-NPO-10096] c07 N71-24583
Audio frequency analysis circuit for determining, displaying, and recording frequency of sweeping audio frequency signal
[NASA-CASE-NPO-11147] c14 N72-27408
Continuous Fourier transform method and apparatus --- for the analysis of simultaneous analog signal components
[NASA-CASE-ARC-10466-1] c60 N75-13539
Frequency discriminator and phase detector circuit
[NASA-CASE-NPO-11515-1] c33 N77-13315
FREQUENCY CONTROL
Automatic control of voltage supply to direct current motor
[NASA-CASE-XMS-04215-1] c09 N69-39987
Variable frequency magnetic coupled multivibrator with temperature compensated frequency control circuit
[NASA-CASE-XGS-00458] c09 N70-38604
Variable frequency magnetic coupled multivibrator with output signal of constant amplitude and waveform
[NASA-CASE-XGS-00131] c09 N70-38995
Development of automatic frequency discriminators and control for phase lock loop providing frequency preset capabilities
[NASA-CASE-XMF-08665] c10 N71-19467
Linear accelerator frequency control system
[NASA-CASE-XGS-05441] c10 N71-22962
Tuning arrangement for frequency control of magnetron-type electron discharge device
[NASA-CASE-XNP-09771] c09 N71-24841
Low loss dichroic plate
[NASA-CASE-NPO-13171-1] c32 N74-11000
Automatic frequency control for FM transmitter
[NASA-CASE-MFS-21540-1] c32 N74-19790
Acoustically controlled distributed feedback laser
[NASA-CASE-NPO-13175-1] c36 N75-31427
FREQUENCY CONVERTERS
Frequency to analog converters with unipolar field effect transistor for determining potential charge by pulse duration of input signal
[NASA-CASE-XNP-07040] c08 N71-12500
Describing static inverter with single or multiple phase output
[NASA-CASE-XMF-00663] c08 N71-18752
Voltage controlled, variable frequency relaxation oscillator with MOSFET variable current feed
[NASA-CASE-GSC-10022-1] c10 N71-25882
Development of family of frequency to amplitude converters for frequency analysis of complex input signal waveforms
[NASA-CASE-MSC-12395] c09 N72-25257
Variable frequency inverter for ac induction motors with torque, speed and braking control
[NASA-CASE-MFS-22088-1] c33 N75-15874
FREQUENCY DISTRIBUTION
Monopole antenna system for maximum omnidirectional efficiency for use on satellites
[NASA-CASE-XLA-00414] c07 N70-38200
Variable frequency subcarrier oscillator with temperature compensation
[NASA-CASE-XNP-03916] c09 N71-28810
Ultra stable frequency distribution system
[NASA-CASE-NPO-13836-1] c32 N76-31373
FREQUENCY DIVIDERS
Low phase noise frequency divider for use with deep space network communication system
[NASA-CASE-NPO-11569] c10 N73-26229
Technique for extending the frequency range of digital dividers
[NASA-CASE-LAR-10730-1] c33 N74-10223
Symmetrical odd-modulus frequency divider
[NASA-CASE-NPO-13426-1] c33 N75-31330
Electronic analog divider
[NASA-CASE-LEW-11881-1] c33 N77-17354
FREQUENCY DIVISION MULTIPLEXING
Earth satellite relay station for frequency multiplexed voice transmission
[NASA-CASE-GSC-10118-1] c07 N71-24621
System for monitoring condition responsive devices by using frequency division multiplex technique
[NASA-CASE-KSC-10521] c07 N73-20176
FREQUENCY MEASUREMENT
Measurement system for physical quantity represented by or converted to variable frequency signal
[NASA-CASE-MFS-20658-1] c14 N73-30386
Frequency measurement by coincidence detection with standard frequency
[NASA-CASE-MSC-14649-1] c33 N76-16331
FREQUENCY MODULATION
Accelerometer with FM output signals indicative of mechanical strain on it
[NASA-CASE-XLA-00492] c14 N70-34799
Circuitry for generating sync signals in FM communication systems including video information
[NASA-CASE-XNP-10830] c07 N71-11281
Demodulator for simultaneous demodulation of two modulating ac signal carriers close in frequency
[NASA-CASE-XMF-01160] c07 N71-11298
Optical tracker with pair of FM reticles having patterns 90 deg out of phase
[NASA-CASE-XGS-05715] c23 N71-16100
Atomic hydrogen maser with bulb temperature control by output frequency difference signal for wall shift elimination
[NASA-CASE-HQN-10654-1] c16 N73-13489
Device for locating electrically nonlinear objects and determining distance to object by FM signal transmission
[NASA-CASE-KSC-10108] c14 N73-25461
Automatic frequency control for FM transmitter
[NASA-CASE-MFS-21540-1] c32 N74-19790
Symmetrical odd-modulus frequency divider
[NASA-CASE-NPO-13426-1] c33 N75-31330
FM/CW radar system
[NASA-CASE-MFS-22234-1] c32 N76-33364
Frequency modulated oscillator
[NASA-CASE-MFS-23181-1] c33 N77-17351
FREQUENCY MULTIPLIERS
Multiple varactor for generating high frequencies with high power and high conversion efficiency
[NASA-CASE-XMF-04958-1] c10 N71-26414
Open loop digital frequency multiplier
[NASA-CASE-MSC-12709-1] c33 N77-24375
FREQUENCY RANGES
Variable time constant, wide frequency range smoothing network for noise removal from pulse chains
[NASA-CASE-XGS-01983] c10 N70-41964
Variable frequency nuclear magnetic resonance spectrometer providing drive signals over wide frequency range and minimizing noise effects
[NASA-CASE-XNP-09830] c14 N71-26266
Technique for extending the frequency range of digital dividers
[NASA-CASE-LAR-10730-1] c33 N74-10223
Multichannel logarithmic RF level detector
[NASA-CASE-LAR-11021-1] c32 N76-14321
Multiple rate digital command detection system with range clean-up capability
[NASA-CASE-NPO-13753-1] c32 N77-20289
FREQUENCY RESPONSE
Adjustable frequency response microphone
[NASA-CASE-LAR-11170-1] c32 N74-12843
FREQUENCY SCANNING
Apparatus and method for determining the position of a radiant energy source
[NASA-CASE-GSC-12147-1] c35 N77-20410
FREQUENCY SHIFT
Doppler frequency shift correction device for multiplex communication with Applications

Technology Satellites
[NASA-CASE-XGS-02749] c07 N69-39978
Serrodyne traveling wave tube reentrant amplifier for synchronous communication satellites operating at microwave frequencies
[NASA-CASE-XGS-01022] c07 N71-16088
Multiplexed communication system design including automatic correction of transmission errors introduced by frequency spectrum shifts
[NASA-CASE-XNP-01306] c07 N71-20814
Doppler shifted laser beam as fluid velocity sensor
[NASA-CASE-XAC-10770-1] c16 N71-24828

FREQUENCY SHIFT KEYING
Frequency shift keyed demodulator - circuit diagrams
[NASA-CASE-XGS-02889] c07 N71-11282
Frequency shift keying apparatus for use with pulse code modulation data transmission system
[NASA-CASE-XGS-01537] c07 N71-23405

FREQUENCY STABILITY
Gas laser frequency stabilized by position of mirrors in resonant cavity
[NASA-CASE-XGS-03644] c16 N71-18614
Solid state broadband stable power amplifier
[NASA-CASE-XNP-10854] c10 N71-26331

FREQUENCY STANDARDS
Development of method for synchronizing clocks at several ground stations based on signals received from spacecraft or satellites
[NASA-CASE-XNP-08875] c10 N71-23099
Atomic standard with variable storage volume
[NASA-CASE-GSC-11895-1] c35 N76-15436
Ultra stable frequency distribution system
[NASA-CASE-NPO-13836-1] c32 N76-31373

FREQUENCY SYNCHRONIZATION
Synchronized digital communication system
[NASA-CASE-XNP-03623] c09 N73-28084
Ultra stable frequency distribution system
[NASA-CASE-NPO-13836-1] c32 N76-31373

FREQUENCY SYNTHESIZERS
Digitally controlled frequency synthesizer for pulse frequency modulation telemetry systems
[NASA-CASE-XGS-02317] c09 N71-23525
A system for synchronizing synthesizers of communication systems
[NASA-CASE-GSC-12148-1] c32 N77-22314

FRICTION FACTOR
Self lubricating gears and other mechanical parts having surface adapted to frictional contact
[NASA-CASE-MFS-14971] c15 N71-24984

FRICTION MEASUREMENT
Kinetic and static friction force measurement between magnetic tape and magnetic head surfaces
[NASA-CASE-XNP-08680] c14 N71-22995
Static coefficient test method and apparatus
[NASA-CASE-GSC-11893-1] c35 N76-31489

FRICTION REDUCTION
Development of low friction magnetic recording tape
[NASA-CASE-XGS-00373] c23 N71-15978
Hollow high strength rolling elements for antifriction bearings fabricated from preformed components
[NASA-CASE-LEW-11026-1] c15 N73-33383
Bearing material
[NASA-CASE-LEW-11930-3] c24 N77-32249

FRICTIONLESS ENVIRONMENTS
Air bearings for near frictionless transfer of loads from one body to another
[NASA-CASE-XNP-01887] c15 N71-10617
Platform with several ground effect pads and plenum chambers
[NASA-CASE-MFS-14685] c31 N71-15689
Development of apparatus for simulating zero gravity conditions
[NASA-CASE-MFS-12750] c27 N71-16223

FROST
Insulating system for receptacles of liquefied gases using wire cloth for forming frost layer
[NASA-CASE-XNP-00341] c15 N70-33323

FUEL CELLS
Inorganic ion exchange membrane electrolytes for fuel cell use
[NASA-CASE-XNP-04264] c03 N69-21337
Operation method for combined electrolysis device and fuel cell using molten salt to produce power by thermoelectric regeneration mechanism
[NASA-CASE-XLE-01645] c03 N71-20904
Electrode sealing and insulation for fuel cells containing caustic liquid electrolytes using powdered plastic and metal
[NASA-CASE-XMS-01625] c15 N71-23022
Development and characteristics of ion-exchange membrane and electrode assembly for fuel cells or electrolysis cells
[NASA-CASE-XMS-02063] c03 N71-29044
Reconstituted asbestos matrix --- for use in fuel or electrolysis cells
[NASA-CASE-MSC-12568-1] c24 N76-14204
Dual membrane, hollow fiber fuel cell
[NASA-CASE-NPO-13732-1] c44 N77-19581

FUEL COMBUSTION
Fuel combustor
[NASA-CASE-LEW-12137-1] c20 N76-20215

FUEL CONTROL
Attitude and propellant flow control system for liquid propellant rocket vehicles
[NASA-CASE-XNP-00185] c21 N70-34539
Flexible ring slosh damping baffle for spacecraft fuel tank
[NASA-CASE-LAR-10317-1] c32 N71-16103
Submerged fuel tank baffles to prevent sloshing in liquid propellant rocket flight
[NASA-CASE-XLA-04605] c32 N71-16106
Control valve and coaxial variable injector for controlling bipropellant mixture ratio and flow
[NASA-CASE-XNP-09702] c15 N71-17654
Force balanced throttle valve for fuel control in rocket engines
[NASA-CASE-NPO-10808] c15 N71-27432
Variable-orifice hydraulic mechanism for aircraft gas turbine engine fuel control
[NASA-CASE-LEW-11187-1] c28 N73-19793
Automotive gas turbine fuel control
[NASA-CASE-LEW-12785-1] c37 N77-13426

FUEL FLOW
Development of system for preheating vaporized fuel for use with internal combustion engines
[NASA-CASE-NPO-12072] c28 N72-22772

FUEL FLOW REGULATORS
Solenoid two-step valve for bipropellant flow rate control to rocket engine
[NASA-CASE-XMS-04890-1] c15 N70-22192
Water electrolysis rocket engine with self-regulating stoichiometric fuel mixing regulator
[NASA-CASE-XGS-08729] c28 N71-14044
Oil cooling system for a gas turbine engine
[NASA-CASE-LEW-12830-1] c07 N77-23106

FUEL GAGES
Response analyzing apparatus for liquid vapor interface sensor of sloshing rocket propellant
[NASA-CASE-MFS-11204] c14 N71-29134

FUEL INJECTION
Apparatus for cooling and injecting hypergolic propellants into combustion chamber of small rocket engine
[NASA-CASE-XLE-00303] c15 N70-36535
Fuel injection system for maximum combustion efficiency of rocket engines
[NASA-CASE-XLE-00111] c28 N70-38199
Propellant injection assembly having individually removable and replaceable nozzles for liquid fueled rocket engines
[NASA-CASE-XNP-00968] c28 N71-15660
Fuel and oxidizer injection head for thrust chamber of reaction engine
[NASA-CASE-NPO-10046] c28 N72-17843
Improved injector with porous plug for bubbles of gas into feed lines of electrically conductive liquid
[NASA-CASE-NPO-11377] c15 N73-27406
Rocket propellant injector with porous faceplate for rocket engine combustion chamber
[NASA-CASE-LEW-11071-1] c27 N73-27695
Splash groove fuel injector
[NASA-CASE-LEW-12417-1] c07 N76-22198

FUEL OILS
Oil cooling system for a gas turbine engine
[NASA-CASE-LEW-12830-1] c07 N77-23106

FUEL PUMPS
Variable displacement fuel pump for internal combustion engines
[NASA-CASE-MSC-12139-1] c28 N71-14058

FUEL SYSTEMS
Internal labyrinth and shield structure to

improve electrical isolation of propellant feed source from ion thrustor
[NASA-CASE-LEW-10210-1] c28 N71-26781
Development of system for preheating vaporized fuel for use with internal combustion engines
[NASA-CASE-NPO-12072] c28 N72-22772
Supersonic-combustion rocket
[NASA-CASE-LEW-11058-1] c20 N74-13502

FUEL TANK PRESSURIZATION
Fuel tank pressure-relief device for venting cryogenic liquid vapors through tubes with porous plug
[NASA-CASE-XLE-00288] c15 N70-34247
Automatically reciprocating, high pressure pump for use in spacecraft cryogenic propellants
[NASA-CASE-XNP-04731] c15 N71-24042
Method and apparatus for pressurizing propellant tanks used in propulsion motor feed system
[NASA-CASE-XNP-00650] c27 N71-28929

FUEL TANKS
Reduced gravity liquid configuration simulator to study propellant behavior in rocket fuel tanks
[NASA-CASE-XLE-02624] c12 N69-39988
Flexible ring slosh damping baffle for spacecraft fuel tank
[NASA-CASE-LAR-10317-1] c32 N71-16103
Submerged fuel tank baffles to prevent sloshing in liquid propellant rocket flight
[NASA-CASE-XLA-04605] c32 N71-16106
Pressure sensor network for measuring liquid dynamic response in flight including fuel tank acceleration, liquid slosh amplitude, and fuel depth monitoring
[NASA-CASE-XLA-05541] c12 N71-26387
Electrical failure detector in solid rocket propellant motor insulation against thermal degradation by fuel grain
[NASA-CASE-XMF-03968] c14 N71-27186

FUEL VALVES
Apparatus for cooling and injecting hypergolic propellants into combustion chamber of small rocket engine
[NASA-CASE-XLE-00303] c15 N70-36535
Semitoroidal diaphragm cavitating flow control valve
[NASA-CASE-XNP-09704] c12 N71-18615
Filler valve design for supplying liquid propellants at high pressure to space vehicles
[NASA-CASE-XNP-01747] c15 N71-23024
Combination automatic-starting electrical plasma torch and gas shutoff valve --- for satellite attitude control
[NASA-CASE-XLE-10717] c37 N75-29426
Fluid valve assembly
[NASA-CASE-MSC-12731-1] c37 N76-26511

FUEL-AIR RATIO
Internal combustion engine with electrostatic discharging fuels
[NASA-CASE-NPO-13798-1] c37 N77-25535

FUNCTION GENERATORS
Mechanical function generators with potentiometer as sensing element
[NASA-CASE-XAC-00001] c15 N71-28952
Digital quasi-exponential function generator
[NASA-CASE-NPO-11130] c08 N72-20176
Service life of electromechanical device for generating sine/cosine functions
[NASA-CASE-LAR-10503-1] c09 N72-21248
Function generators for producing complex vibration mode patterns used to identify vibration mode data
[NASA-CASE-LAR-10310-1] c10 N73-20253
Integrated circuit tangnet function generator
[NASA-CASE-MSC-13907-1] c10 N73-26230

FURLABLE ANTENNAS
Development and characteristics of extensible dipole antenna using deformable tubular metallic strip element
[NASA-CASE-HQN-00937] c07 N71-28979
Furlable antenna for spacecraft
[NASA-CASE-NPO-11361] c07 N72-32169
Furlable antenna --- antenna design
[NASA-CASE-NPO-13553-1] c33 N76-32457

FURNACES
High speed infrared furnace
[NASA-CASE-XLE-10466] c17 N69-25147
Development of black-body source calibration furnace
[NASA-CASE-XLE-01399] c33 N71-15625
Induction heating of metallurgical specimens to high temperatures in coil furnace
[NASA-CASE-XLE-04026] c14 N71-23267
Electric furnace for vacuum and zero gravity melting of high melting point materials during earth orbit
[NASA-CASE-MFS-20710] c11 N72-23215
High temperature strain gage calibration fixture
[NASA-CASE-LAR-11500-1] c35 N76-24523
General purpose rocket furnace
[NASA-CASE-MFS-23460-1] c09 N77-12070

FUSION (MELTING)
Silver chloride use in technique for fusion bonding of graphite to silver, glass, ceramics, and certain other metals
[NASA-CASE-XGS-00963] c15 N69-39735
Process for fiberizing ceramic materials with high fusion temperatures and tensile strength
[NASA-CASE-XNP-00597] c18 N71-23088

FUSION WELDING
Fabricating solar cells with dielectric layers to improve glass fusion
[NASA-CASE-XGS-04531] c03 N69-24267
Control of fusion welding through use of thermocouple wire
[NASA-CASE-MFS-06074] c15 N71-20393
Diffusion welding in air --- solid state welding of butt joint by fusion welding, surface cleaning, and heating
[NASA-CASE-LEW-11387-1] c37 N74-18128

G

GADOLINIUM
Doping silicon material with gadolinium to increase radiation resistance of solar cells
[NASA-CASE-XLE-02792] c26 N71-10607
Gadolinium or samarium doped-silicon semiconductor material with resistance to radiation damage for use in solar cells
[NASA-CASE-XLE-10715] c26 N71-23292

GALLIUM
Device for measuring two orthogonal components of force with gallium flotation of measuring target for use in vacuum environments
[NASA-CASE-XAC-04885] c14 N71-23790

GALLIUM ARSENIDES
Describing method for vapor deposition of gallium arsenide films to manganese substrates to provide semiconductor devices with low resistance substrates
[NASA-CASE-XNP-01328] c26 N71-18064
Gallium arsenide solar cell preparation by surface deposition of cuprous iodide on thin n-type polycrystalline layers and heating in iodine vapor
[NASA-CASE-XNP-01960] c09 N71-23027
Water content in vapor deposition atmosphere for forming n-type and p-type junctions of zinc doped gallium arsenide
[NASA-CASE-XNP-01961] c26 N71-29156
Vapor phase growth of groups 3-5 compounds by hydrogen chloride transport of the elements
[NASA-CASE-LAR-11144-1] c25 N75-26043
Vapor deposition apparatus --- semiconductors and gallium arsenides
[NASA-CASE-HQN-10462] c25 N75-29192

GALLIUM COMPOUNDS
Growth of gallium nitride crystals
[NASA-CASE-LAR-11302-1] c25 N75-13054

GALVANIC SKIN RESPONSE
Adhesive spray process for attaching biomedical skin electrodes
[NASA-CASE-XFR-07658-1] c05 N71-26293

GAMMA RAYS
Design of gamma ray spectrometer for measurement of intense radiation using Compton scattering effect
[NASA-CASE-MFS-21441-1] c14 N73-30392
Low intensity X-ray and gamma-ray imaging device
[NASA-CASE-GSC-12263-1] c35 N77-29471

GANTRY CRANES
Design and characteristics of mechanically extended and telescoping boom on crane assembly
[NASA-CASE-NPO-11118] c03 N72-25021

GAPS
Electromagnetic transducer recording head having a laminated core section and tapered gap

[NASA-CASE-NPO-10711-1] c35 N77-21392
GARMENTS
Electromedical garment, applying vectorcardiologic type electrodes to human torsos for data recording during physical activity
[NASA-CASE-XFR-10856] c05 N71-11189
Flexible joint for pressurizable garment
[NASA-CASE-MSC-11072] c54 N74-32546
Spacesuit torso closure
[NASA-CASE-ARC-11100-1] c54 N77-25784
GAS ANALYSIS
Gas analyzer for bi-gaseous mixtures suitable for use in test facilities
[NASA-CASE-XLA-01131] c14 N71-10774
Describing crystal oscillator instrument for detecting condensible gas contaminants in vacuum apparatus
[NASA-CASE-NPO-10144] c14 N71-17701
Design and characteristics of time of flight mass spectrometer to measure or analyze gases at low pressures and time of flight of single gas molecule
[NASA-CASE-XNP-01056] c14 N71-23041
Microwave double resonance spectroscopy absorption cell for gas analysis
[NASA-CASE-LAR-10305] c14 N71-26137
Ion microprobe mass spectrometer with cooled electrode target for analyzing traces of fluids
[NASA-CASE-ERC-10014] c14 N71-28863
Development and characteristics of injection system for use with gas chromatograph
[NASA-CASE-ARC-10344-1] c14 N72-21433
Nondispersive gas analysis using radiation detection for quantitative analysis
[NASA-CASE-ARC-10308-1] c06 N72-31141
Apparatus for analyzing gas samples in containers including vacuum chamber, mass spectrometer, and gas chromatography
[NASA-CASE-GSC-10903-1] c14 N73-12444
Coaxial anode wire for gas radiation counters
[NASA-CASE-GSC-11492-1] c35 N74-26949
Fast scan control for deflection type mass spectrometers
[NASA-CASE-LAR-11428-1] c35 N74-34857
NDIR gas analyzer based on absorption modulation ratios for known and unknown samples
[NASA-CASE-ARC-10802-1] c35 N75-30502
Gas compression analysis --- for oxygen supply equipment
[NASA-CASE-MSC-14757-1] c37 N76-13496
Stack plume visualization system
[NASA-CASE-LAR-11675-1] c45 N76-17656
Nulling device for detection of trace gases by NDIR absorption
[NASA-CASE-ARC-10760-1] c25 N76-22323
Analysis of volatile organic compounds --- trace amounts of organic volatiles in gas samples
[NASA-CASE-MSC-14428-1] c23 N77-17161
A method for aerosol analysis by thermoluminescence
[NASA-CASE-LAR-12046-1] c45 N77-17609
Fluid sampling device
[NASA-CASE-GSC-12143-1] c35 N77-32456
GAS BAGS
Payload soft landing system using stowable gas bag
[NASA-CASE-XLA-09881] c31 N71-16085
GAS BEARINGS
Externally pressurized air bearing for gyros operating in high temperature, low gravity environments
[NASA-CASE-XNP-00515] c15 N70-34664
Slit regulated gas journal bearing
[NASA-CASE-XNP-00476] c15 N70-38620
Air bearings for spacecraft gyros
[NASA-CASE-XNP-00339] c15 N70-39896
Air bearings for near frictionless transfer of loads from one body to another
[NASA-CASE-XNP-01887] c15 N71-10617
Fluid power transmission and gas bearing system
[NASA-CASE-XNS-01445] c12 N71-16031
Bismuth and lead surface coatings for gas bearings in aerospace engineering
[NASA-CASE-XGS-02011] c15 N71-20739
Swivel support for gas bearing for position adjustment between ball and supporting cup
[NASA-CASE-XNP-07808] c15 N71-23812
Low friction gas bearing system for fluid power transmission to bearing-supported payload
[NASA-CASE-ERC-10097] c15 N71-28465
Gas bearing for model support with capacity for measuring angular displacement of model in bearing
[NASA-CASE-XLA-09346] c15 N71-28740
Journal air bearing with cylindrical cup designed to ride on shaft
[NASA-CASE-NFS-20423] c15 N72-11388
Air bearing for use in exterior environment for moving heavy loads
[NASA-CASE-WLP-10002] c15 N72-17451
Axially and radially controllable magnetic bearing
[NASA-CASE-GSC-11551-1] c37 N76-18459
Thrust bearing
[NASA-CASE-LEW-11949-1] c37 N76-29588
GAS CHROMATOGRAPHY
Micropacked column for rapid chromatographic analysis using low gas flow rates
[NASA-CASE-XNP-04816] c06 N69-39936
Automatic baseline stabilization for ionization detector used in gas chromatograph
[NASA-CASE-XNP-03128] c10 N70-41991
Gas chromatographic method for determining water in nitrogen tetroxide rocket propellant
[NASA-CASE-NPO-10234] c06 N72-17094
Development and characteristics of injection system for use with gas chromatograph
[NASA-CASE-ARC-10344-1] c14 N72-21433
Gas chromatographic method for analyzing hydrogen deuterium mixtures
[NASA-CASE-NPO-11322] c06 N72-25146
Ultraviolet chromatographic detector for quantitative and qualitative analysis of compounds
[NASA-CASE-HQN-10756-1] c14 N72-25428
Apparatus for analyzing gas samples in containers including vacuum chamber, mass spectrometer, and gas chromatography
[NASA-CASE-GSC-10903-1] c14 N73-12444
Gas chromatograph injection system
[NASA-CASE-ARC-10344-2] c35 N75-26334
GAS COOLED REACTORS
Gaseous core diffusion nuclear reactor for thermal energy generation
[NASA-CASE-LEW-10250-1] c22 N71-28759
GAS COOLING
Gas balancing, cryogenic refrigeration apparatus with Joule-Thomson valve assembly
[NASA-CASE-NPO-10309] c15 N69-23190
Gas cooled high temperature thermocouple
[NASA-CASE-XLE-09475-1] c33 N71-15568
GAS DENSITY
Dynamic sensor for gas pressure or density measurement
[NASA-CASE-XAC-02877] c14 N70-41681
Device for simultaneously determining density, velocity, and temperature of streaming gas
[NASA-CASE-XLA-03375] c16 N71-24074
Coherent light beam device and method for measuring gas density in vacuum chambers
[NASA-CASE-XER-11203] c14 N71-28994
Absorbing gas reactivity control system for minimizing power distribution and perturbation in nuclear reactors
[NASA-CASE-XLE-04599] c22 N72-20597
Electrodeposition method for producing crystalline material from dense gaseous medium
[NASA-CASE-NPO-10440] c15 N72-21466
Wide range dynamic pressure sensor with vibrating diaphragm for measuring density and pressure of gaseous environment
[NASA-CASE-ARC-10263-1] c14 N72-22438
Absolute pressure measuring device for measuring gas density level in high vacuum range
[NASA-CASE-LAR-10000] c14 N73-30394
Method and apparatus for compensating reflection losses in a path length modulated absorption-absorption trace gas detector --- for determining density of gas
[NASA-CASE-ARC-10631-1] c74 N76-20958
GAS DETECTORS
Method and transducer device for detecting presence of hydrogen gas
[NASA-CASE-XNP-03873] c06 N69-39733
Development of device for detecting hydrogen in ambient environments
[NASA-CASE-NFS-11537] c14 N71-20442
Gas leak detection in evacuated systems using ultraviolet radiation probe
[NASA-CASE-ERC-10034] c15 N71-24896

Fast response miniature carbon dioxide detector with no moving parts for measuring concentration in any atmosphere
[NASA-CASE-MSC-13332-1] c14 N72-21408
Fluorescence detector for monitoring atmospheric pollutants
[NASA-CASE-NPO-13231-1] c45 N75-27585
Carbon monoxide monitor --- using real time operation
[NASA-CASE-MFS-22060-1] c35 N75-29380
Method and apparatus for compensating reflection losses in a path length modulated absorption-absorption trace gas detector --- for determining density of gas
[NASA-CASE-ARC-10631-1] c74 N76-20958
Indicator providing continuous indication of the presence of a specific pollutant in air
[NASA-CASE-NPO-13474-1] c45 N76-21742
Particulate and aerosol detector
[NASA-CASE-LAR-11434-1] c35 N76-22509
Optically selective, acoustically resonant gas detecting transducer
[NASA-CASE-ARC-10639-1] c35 N77-19388
Cryogenic liquid sensor
[NASA-CASE-NPO-10619-1] c35 N77-21393

GAS DISCHARGE TUBES
Direct current powered self repeating plasma accelerator with interconnected annular and linear discharge channels
[NASA-CASE-XLA-03103] c25 N71-21693
Double discharge metal vapor laser with metal halide as a lasant
[NASA-CASE-NPO-13448-2] c36 N77-24469

GAS DISCHARGES
Radio frequency noise generator having microwave slow-wave structure in gas discharge plasma
[NASA-CASE-XER-11019] c09 N71-23598

GAS EVOLUTION
Development of filter system for control of outgas contamination in vacuum conditions using absorbent beds of molecular sieve zeolite, silica gel, and charcoal
[NASA-CASE-MFS-14711] c15 N71-26185

GAS EXPANSION
Sealed electric storage battery with gas manifold interconnecting each cell
[NASA-CASE-XNP-03378] c03 N71-11051
Method and apparatus for producing very low temperature refrigeration based on gas pressure balance
[NASA-CASE-XNP-08877] c15 N71-23025
Gas-operated actuator with cyclic motion of expansion chamber
[NASA-CASE-NPO-11340] c15 N72-33477

GAS FLOW
Tubular flow restrictor for gas flow control in pipeline
[NASA-CASE-NPO-10117] c15 N71-15608
Developing high pressure gas purification and filtration system for use in test operations of space vehicles
[NASA-CASE-MFS-12806] c14 N71-17588
Burst diaphragm flow initiator for installation in short duration wind tunnels
[NASA-CASE-MFS-12915] c11 N71-17600
Color photointerpretation of interference colors reflected from thin film oil-coated components in moving gases for gas flow visualization
[NASA-CASE-XMF-01779] c12 N71-20815
Transducer for monitoring oxygen flow in respirator
[NASA-CASE-FRC-10012] c14 N72-17329
Design, development, and operation of shock tube with bypass piston tunnel
[NASA-CASE-NPO-12109] c11 N72-22245
Continuous gas flow control by fluidic proportional thruster system
[NASA-CASE-ARC-10106-1] c28 N72-22769
Development of filter apparatus for gas separation and characteristics of filter cell support frame for improved operation
[NASA-CASE-MSC-12297] c14 N72-23457
Pressurized inert gas feed for lighting system
[NASA-CASE-KSC-10644] c09 N72-27227
Development of method for controlling vapor content of gas
[NASA-CASE-NPO-10633] c03 N72-28025
Gas flow control device, including housing and input port
[NASA-CASE-NPO-11479] c15 N73-13462
Compact hydrogenator
[NASA-CASE-NPO-11682-1] c35 N74-15127
Apparatus for establishing flow of a fluid mass having a known velocity
[NASA-CASE-MFS-21424-1] c34 N74-27730
Condensate removal device for heat exchanger
[NASA-CASE-MSC-14143-1] c77 N75-20139
Flow measuring apparatus
[NASA-CASE-LEW-12078-1] c35 N75-30503

GAS GENERATORS
Chlorine generator for purifying water in life support systems of manned spacecraft
[NASA-CASE-XLA-08913] c14 N71-28933
Gas operated quick disconnect coupling for umbilical connectors
[NASA-CASE-NPO-11202] c15 N72-25450
Actuator operated by electrolytic drive gas generator and evacuator
[NASA-CASE-NPO-11369] c15 N73-13467
Development and operating principles of gas generator for deploying recovery parachutes from space capsules during atmospheric entry
[NASA-CASE-LAR-10549-1] c31 N73-13898
Hydrogen rich gas generator
[NASA-CASE-NPO-13342-1] c37 N76-16446
Hydrogen-rich gas generator
[NASA-CASE-NPO-13464-1] c44 N76-18642
Hydrogen rich gas generator
[NASA-CASE-NPO-13342-2] c44 N76-29700
Hydrogen rich gas generator
[NASA-CASE-NPO-13464-2] c44 N76-29704
Hydrogen-rich gas generator
[NASA-CASE-NPO-13560-1] c44 N77-10636

GAS GUNS
Electric arc device for minimizing electrode ablation and heating gases to supersonic or hypersonic wind tunnel temperatures
[NASA-CASE-XAC-00319] c25 N70-41628

GAS HEATING
Bimetallic fluid displacement apparatus --- for stirring and heating stored gases and liquids
[NASA-CASE-ARC-10441-1] c35 N74-15126

GAS INJECTION
Pressurized gas injection for burning rate control of solid propellants
[NASA-CASE-XLR-03494] c27 N71-21819
Compact hydrogenator
[NASA-CASE-NPO-11682-1] c35 N74-15127
Gas chromatograph injection system
[NASA-CASE-ARC-10344-2] c35 N75-26334

GAS IONIZATION
Electrostatic modulator for communicating through plasma sheath formed around spacecraft during reentry
[NASA-CASE-XLA-01400] c07 N70-41331
Multichannel photoionization chamber for measuring absorption, photoionization yield, and coefficients of gases
[NASA-CASE-ERC-10044-1] c14 N71-27090
Modulated hydrogen ion flame detector
[NASA-CASE-ARC-10322-1] c35 N76-18403
Charge transfer reaction laser with preionization means
[NASA-CASE-NPO-13945-1] c36 N77-19418

GAS LASERS
Gas laser frequency stabilized by position of mirrors in resonant cavity
[NASA-CASE-XGS-03644] c16 N71-18614
Inert gas metallic vapor laser
[NASA-CASE-NPO-13449-1] c36 N75-32441
Diffused waveguiding capillary tube with distributed feedback for a gas laser
[NASA-CASE-NPO-13544-1] c36 N76-18428
Charge transfer reaction laser with preionization means
[NASA-CASE-NPO-13945-1] c36 N77-19418

GAS LUBRICANTS
High temperature gas lubricant consisting of two fluoro-bromo-methanes
[NASA-CASE-XLR-00353] c18 N70-39897
Thrust bearing
[NASA-CASE-LEW-11949-1] c37 N76-29588
A cantilever mounted resilient pad gas bearing
[NASA-CASE-LEW-12569-1] c37 N77-24496

GAS MASERS
Solid state chemical source for ammonia beam masers
[NASA-CASE-XGS-01504] c16 N70-41578

Atomic hydrogen maser with bulb temperature control by output frequency difference signal for wall shift elimination
[NASA-CASE-HQN-10654-1] c16 N73-13489
Method of producing a storage bulb for an atomic hydrogen maser
[NASA-CASE-NPO-13050-1] c36 N75-15029
Atomic standard with variable storage volume
[NASA-CASE-GSC-11895-1] c35 N76-15436

GAS MIXTURES
Gas analyzer for bi-gaseous mixtures suitable for use in test facilities
[NASA-CASE-XLA-01131] c14 N71-10774
Equipment for measuring partial water vapor pressure in gas tank
[NASA-CASE-XMS-01618] c14 N71-20741
Separation cell with permeable membranes for fluid mixture component separation
[NASA-CASE-XMS-02952] c18 N71-20742
Gas chromatographic method for analyzing hydrogen deuterium mixtures
[NASA-CASE-NPO-11222] c06 N72-25146
Hydrogen rich gas generator
[NASA-CASE-NPO-13342-2] c44 N76-29700
Hydrogen-rich gas generator
[NASA-CASE-NPO-13560-1] c44 N77-10636

GAS PIPES
Tubular flow restrictor for gas flow control in pipeline
[NASA-CASE-NPO-10117] c15 N71-15608

GAS PRESSURE
Expulsion and measuring device for determining quantity of liquid in tank under conditions of weightlessness
[NASA-CASE-XMS-01546] c14 N70-40233
Dynamic sensor for gas pressure or density measurement
[NASA-CASE-XAC-02877] c14 N70-41681
Wide range dynamic pressure sensor with vibrating diaphragm for measuring density and pressure of gaseous environment
[NASA-CASE-ARC-10263-1] c14 N72-22438
Measurement of gas production of microorganisms --- using pressure sensors
[NASA-CASE-LAR-11326-1] c35 N75-33368
Depressurization of arc lamps
[NASA-CASE-NPO-10790-1] c33 N77-21316

GAS SPECTROSCOPY
Optically selective, acoustically resonant gas detecting transducer
[NASA-CASE-ARC-10639-1] c35 N77-19388

GAS STREAMS
Device for simultaneously determining density, velocity, and temperature of streaming gas
[NASA-CASE-XLA-03375] c16 N71-24074
Stagnation pressure probe --- for measuring pressure of supersonic gas streams
[NASA-CASE-LAR-11139-1] c35 N74-32878
Process for removing sulfur dioxide from gas streams --- using iron as a catalyst
[NASA-CASE-MSC-16299-1] c45 N77-31668

GAS TEMPERATURE
Device for simultaneously determining density, velocity, and temperature of streaming gas
[NASA-CASE-XLA-03375] c16 N71-24074

GAS TURBINE ENGINES
Variable-orifice hydraulic mechanism for aircraft gas turbine engine fuel control
[NASA-CASE-LEW-11187-1] c28 N73-19793
Swirl can, full-annulus combustion chambers for high performance gas turbine engines
[NASA-CASE-LEW-11326-1] c23 N73-30665
Controlled separation combustor --- airflow distribution in gas turbine engines
[NASA-CASE-LEW-11593-1] c20 N76-14190
Fused silicide coatings containing discrete particles for protecting niobium alloys --- used in space shuttle thermal protection systems and turbine engine components
[NASA-CASE-LEW-11179-1] c27 N76-16229
Dual output variable pitch turbofan actuation system
[NASA-CASE-LEW-12419-1] c07 N77-14025
Ocean thermal plant
[NASA-CASE-KSC-11034-1] c44 N77-21666
Oil cooling system for a gas turbine engine
[NASA-CASE-LEW-12830-1] c07 N77-23106
Blade retainer assembly
[NASA-CASE-LEW-12608-1] c07 N77-27116
Nickel base alloy --- for gas turbine engine stator vanes
[NASA-CASE-LEW-12270-1] c26 N77-32280
Bearing seat usable in a gas turbine engine
[NASA-CASE-LEW-12477-1] c37 N77-32501

GAS TURBINES
Method for maintaining good performance in gas turbine during air flow distortion
[NASA-CASE-LEW-10286-1] c28 N71-28915
Gas turbine exhaust nozzle --- for noise reduction
[NASA-CASE-LEW-11569-1] c07 N74-15453
Counter pumping debris excluder and separator
[NASA-CASE-LEW-11855-1] c37 N76-20487
Direct heating surface combustor
[NASA-CASE-LEW-11877-1] c44 N76-28646
Automotive gas turbine fuel control
[NASA-CASE-LEW-12785-1] c37 N77-13426

GAS VALVES
High-temperature, high-pressure spherical segment valve
[NASA-CASE-XAC-00074] c15 N70-34817
Shrink-fit vacuum system gas valve
[NASA-CASE-XGS-00587] c15 N70-35087
Gas valve operated by thermally expanding and contracting device
[NASA-CASE-XLE-00815] c15 N70-35407
Three-port transfer valve with one port open continuously suitable for manned space flight
[NASA-CASE-XAC-01158] c15 N71-23051

GAS WELDING
Emission spectroscopy method for contamination monitoring of inert gas metal arc welding
[NASA-CASE-XMF-02039] c15 N71-15871
Grain refinement control in TIG arc welding
[NASA-CASE-MSC-19095-1] c37 N75-19683

GAS-LIQUID INTERACTIONS
Fluid control apparatus and method
[NASA-CASE-LAR-11110-1] c34 N75-26282

GASDYNAMIC LASERS
Diatomic infrared gasdynamic laser --- for producing different wavelengths
[NASA-CASE-ABC-10370-1] c36 N75-31426

GASEOUS DIFFUSION
Gas purged dry box glove reducing permeation of air or moisture into dry box or isolator by diffusion through glove
[NASA-CASE-XLE-02531] c05 N71-23080
Gaseous core diffusion nuclear reactor for thermal energy generation
[NASA-CASE-LEW-10250-1] c22 N71-28759

GASEOUS FISSION REACTORS
Nuclear gaseous reactor for heating working fluid to high temperatures
[NASA-CASE-XLE-00321] c22 N70-34572
Gaseous core diffusion nuclear reactor for thermal energy generation
[NASA-CASE-LEW-10250-1] c22 N71-28759

GASEOUS ROCKET PROPELLANTS
Electrostatic ion engines using high velocity electrons to ionize propellant
[NASA-CASE-XLE-00376] c28 N70-37245
Detonation reaction engine comprising outer housing enclosing pair of inner walls for continuous flow
[NASA-CASE-XMF-06926] c28 N71-22983

GASES
Apparatus and process for volumetrically dispensing reagent quantities of volatile chemicals for small batch reactions
[NASA-CASE-NPO-10070] c15 N71-27372
High speed scanner for measuring mass of preselected gases at high sampling rate
[NASA-CASE-LAR-10766-1] c14 N72-21432
Observation window for internal gas confining chamber
[NASA-CASE-NPO-10890] c11 N73-12265
Device for detection of combustion light preceding gaseous explosions
[NASA-CASE-LAR-10739-1] c14 N73-16484

GASKETS
Leakproof soft metal seal for use in very high vacuum systems operating at cryogenic temperatures
[NASA-CASE-XGS-02441] c15 N70-41629
Reinforced polyquinoxaline gasket and method of preparing the same --- resistant to ionizing radiation and liquid hydrogen temperatures
[NASA-CASE-MFS-21364-1] c37 N74-18126

GATES (CIRCUITS)
Flux gate magnetometer with toroidal gating coil and solenoidal output coil for signal modulation or amplification
[NASA-CASE-XGS-01881] c09 N70-40123
Silicon controlled rectifier pulse gate amplifier for blocking false gating caused by negative transient voltages
[NASA-CASE-XLA-07497] c09 N71-12514
Logic AND gate for fluid circuits
[NASA-CASE-XLA-07391] c12 N71-17579
Synchronous counter design incorporating cascaded binary stages driven by previous stages and inputs through NAND gates
[NASA-CASE-XGS-02440] c08 N71-19432
Switching series regulator with gating control network
[NASA-CASE-XMS-09352] c09 N71-23316
Two-dimensional radiant energy array computers and computing devices
[NASA-CASE-GSC-11839-2] c60 N76-18803
GATES (OPENINGS)
Longitudinalfilm gate and lock mechanism for securing film in motion picture cameras under vibration and high acceleration loads
[NASA-CASE-LAR-10686] c14 N71-28935
GAW-1 AIRFOIL
Airfoil shape for flight at subsonic speeds --- design analysis and aerodynamic characteristics of the GAW-1 airfoil
[NASA-CASE-LAR-10585-1] c02 N76-22154
GEARS
Precision stepping drive device using cam disk
[NASA-CASE-MFS-14772] c15 N71-17692
Gearing system for eliminating backlash and filtering input torque fluctuations from high inertia load
[NASA-CASE-XGS-04227] c15 N71-21744
Self lubricating gears and other mechanical parts having surface adapted to frictional contact
[NASA-CASE-MFS-14971] c15 N71-24984
Concentric differential gearing arrangement
[NASA-CASE-ARC-10462-1] c37 N74-27901
Sequencing device utilizing planetary gear set
[NASA-CASE-MSC-19514-1] c37 N77-19459
GELLED ROCKET PROPELLANTS
Method and apparatus for producing fine particles in cryogenic liquid bath for gelled rocket propellants
[NASA-CASE-NPO-10250] c23 N71-16212
GELS
Intermittent type silica gel adsorption refrigerator for providing temperature control for spacecraft components
[NASA-CASE-XNP-00920] c15 N71-15906
GENERATORS
Apparatus for establishing flow of a fluid mass having a known velocity
[NASA-CASE-MFS-21424-1] c34 N74-27730
GERMANIUM
Germanium coated microbridge and method
[NASA-CASE-MFS-23274-1] c76 N76-30084
GIMBALS
Gimbaled partially submerged nozzle for solid propellant rocket engines for providing directional control
[NASA-CASE-XMF-01544] c28 N70-34162
Inertial gimbal alignment system for spacecraft guidance
[NASA-CASE-XMF-01669] c21 N71-23289
Three stage motion restraining mechanism for restraining and damping three dimensional vibrational movement of gimballed package during launch of spacecraft
[NASA-CASE-GSC-10306-1] c15 N71-24694
Hermetically sealed vibration damper design for use in gimbal assembly of spacecraft inertial guidance system
[NASA-CASE-MSC-10959] c15 N71-26243
Low friction bearing and lock mechanism for two-axis gimbal carrying satellite payload
[NASA-CASE-GSC-10556-1] c31 N71-26537
Failure detection and control means for improved drift performance of a gimballed platform system
[NASA-CASE-MFS-23551-1] c04 N76-26175
GLANDS (SEALS)
Development of mating flat surfaces to inhibit leakage of fluid around shafts
[NASA-CASE-XLE-10326-2] c15 N72-29488
GLASS
Fabricating solar cells with dielectric layers to improve glass fusion
[NASA-CASE-XGS-04531] c03 N69-24267
Reduced gravity liquid configuration simulator to study propellant behavior in rocket fuel tanks
[NASA-CASE-XLE-02624] c12 N69-39988
Metal pattern bonding technique for cover glass attachment to silicon solar cells for space applications
[NASA-CASE-XLE-08569] c03 N71-23449
Apparatus for applying thin glass slides to solar cells
[NASA-CASE-NPO-10575] c03 N72-25019
Glass-to-metal seals comprising relatively high expansion metals
[NASA-CASE-LEW-10698-1] c37 N74-21063
Covered silicon solar cells and method of manufacture --- with polymeric films
[NASA-CASE-LEW-11065-2] c44 N76-14600
Reaction cured glass and glass coatings
[NASA-CASE-ARC-11051-1] c27 N77-10201
Window defect planar mapping technique
[NASA-CASE-MSC-19442-1] c74 N77-10899
Method of forming shrink-fit compression seal
[NASA-CASE-LAR-11563-1] c37 N77-23482
GLASS COATINGS
Method of attaching cover glass to silicon solar cell without using adhesive
[NASA-CASE-XLE-08569-2] c03 N71-24681
Helium outgassing process for fused glass coating on ion accelerator grid
[NASA-CASE-LEW-10278-1] c15 N71-28582
Development of process for constructing protective covers for solar cells
[NASA-CASE-GSC-11514-1] c03 N72-24037
GLASS ELECTRODES
Liquid junction for glass electrode or pH meters
[NASA-CASE-NPO-10682] c15 N70-34699
GLASS FIBERS
Nonmagnetic hermetically sealed battery case made of epoxy resin and woven glass tape for use with electrochemical cells in spacecraft
[NASA-CASE-XGS-00886] c03 N71-11053
Lathe tool and holder combination for machining resin impregnated fiberglass cloth laminates
[NASA-CASE-XLA-10470] c15 N72-21489
Development and characteristics of polyimide impregnated laminates with fiberglass cloth backing for application as printed circuit broads
[NASA-CASE-MFS-20408] c18 N73-12604
Method of repairing discontinuity in fiberglass structures
[NASA-CASE-LAR-10416-1] c24 N74-30001
Fiber modified polyurethane foam for ballistic protection
[NASA-CASE-ARC-10714-1] c27 N76-15310
Vacuum pressure molding technique
[NASA-CASE-LAR-10073-1] c37 N76-24575
Low density bismaleimide-carbon microballoon composites
[NASA-CASE-ARC-11040-1] c24 N77-19173
GLAUCOMA
Intra-ocular pressure normalization apparatus
[NASA-CASE-LEW-12955-1] c52 N77-30736
Intra-ocular pressure normalization technique and equipment
[NASA-CASE-LEW-12723-1] c52 N77-30737
GLIDE PATHS
Integrated lift/drag controller for aircraft
[NASA-CASE-ARC-10456-1] c05 N75-12930
GLOBES
Orbital and entry tracking accessory for globes --- to provide range requirements for reentry vehicles to any landing site
[NASA-CASE-LAR-10626-1] c19 N74-21015
GLOVES
Gas purged dry box glove reducing permeation of air or moisture into dry box or isolator by diffusion through glove
[NASA-CASE-XLE-02531] c05 N71-23080
GLOW DISCHARGES
Deposition of alloy films --- on irregulary shaped metal object
[NASA-CASE-LEW-11262-1] c27 N74-13270

Electric discharge for treatment of trace contaminants
[NASA-CASE-ARC-10975-1] c54 N77-24771
GLUCOSE
Use of enzyme hexokinase and glucose to reduce inherent light levels of ATP in luciferase compositions
[NASA-CASE-NGS-05533] c04 N69-27487
GOLD COATINGS
Lithium drifted silicon radiation detector with gold rectifying contacts
[NASA-CASE-XLE-10529] c14 N69-23191
GONDOLAS
System for controlling torque buildup in suspension of gondola connected to balloon by parachute shroud lines
[NASA-CASE-GSC-11077-1] c02 N73-13008
GRANULAR MATERIALS
Development of device for separating, collecting, and viewing soil particles
[NASA-CASE-XNP-09770] c15 N71-20440
GRAPHITE
Silver chloride use in technique for fusion bonding of graphite to silver, glass, ceramics, and certain other metals
[NASA-CASE-NGS-00963] c15 N69-39735
Method of preparing graphite reinforced aluminum composite
[NASA-CASE-MFS-21077-1] c24 N75-28135
Graphite reinforced bone cement
[NASA-CASE-NPO-13764-1] c24 N76-26281
GRATINGS (SPECTRA)
Concave grating spectrometer for use in near and vacuum ultraviolet regions
[NASA-CASE-NGS-01036] c14 N70-40003
GRAVIMETERS
Device for determining acceleration of gravity by interferometric measurement of travel of falling body
[NASA-CASE-XMF-05844] c14 N71-17587
GRAVITATION
Design of precision vertical alignment system using laser with gravitationally sensitive cavity
[NASA-CASE-ARC-10444-1] c16 N73-33397
Anti-gravity device
[NASA-CASE-MFS-22758-1] c70 N75-26789
GRAVITATIONAL CONSTANT
Gravity device for accurate and rapid indication of relative gravity conditions aboard accelerating carrier
[NASA-CASE-XMF-00424] c11 N70-38196
GRAVITATIONAL EFFECTS
Gravity environment simulation by locomotion and restraint aid for studying manual operation performance of astronauts at zero gravity
[NASA-CASE-ARC-10153] c05 N71-28619
Rotary plant growth accelerating apparatus --- weightlessness
[NASA-CASE-ARC-10722-1] c51 N75-25503
GRAVITATIONAL FIELDS
Difference indicating circuit used in conjunction with device measuring gravitational fields
[NASA-CASE-XNP-08274] c10 N71-13537
GRAVITY GRADIENT SATELLITES
Stabilization system for gravity-oriented satellites using single damper rod
[NASA-CASE-XAC-01591] c31 N71-17729
Method of stationkeeping for lenticular gravity gradient satellites
[NASA-CASE-XLA-03132] c31 N71-22969
GRAVITY GRADIOMETERS
Gravity device for accurate and rapid indication of relative gravity conditions aboard accelerating carrier
[NASA-CASE-XMF-00424] c11 N70-38196
Gravity gradient attitude control system with gravity gradiometer and reaction wheels for artificial satellite attitude control
[NASA-CASE-GSC-10555-1] c21 N71-27324
GRIDS
Method of making dished ion thruster grids
[NASA-CASE-LEW-11694-1] c20 N75-18310
Apparatus for forming dished ion thruster grids
[NASA-CASE-LEW-11694-2] c37 N76-14461
Method of constructing dished ion thruster grids to provide hole array spacing compensation
[NASA-CASE-LEW-11876-1] c20 N76-21276
Solar cell grid patterns
[NASA-CASE-NPO-13087-2] c44 N76-31666
GRINDING (MATERIAL REMOVAL)
Laser device for removing material from rotating object for dynamic balancing
[NASA-CASE-MFS-11279] c16 N71-20400
Grinding mixtures of powdered metals and inert fillers for conversion to halide
[NASA-CASE-LEW-10450-1] c15 N72-25448
GRINDING MACHINES
Grinding arrangement for ball nose milling cutters
[NASA-CASE-LAR-10450-1] c37 N74-27905
GROOVES
Nonreuseable energy absorbing device comprising ring member with plurality of recesses, cutting members, and guide member mounted in each recess
[NASA-CASE-XMF-10040] c15 N71-22877
Spiral groove seal --- for hydraulic rotating shaft
[NASA-CASE-LEW-10326-3] c37 N74-10474
Spiral groove seal --- for rotating shaft
[NASA-CASE-XLE-10326-4] c37 N74-15125
Splash groove fuel injector
[NASA-CASE-LEW-12417-1] c07 N76-22198
GROUND EFFECT MACHINES
Hovering type flying vehicle design and principle mechanisms for manned or unmanned use
[NASA-CASE-MSC-12111-1] c02 N71-11039
Platform with several ground effect pads and plenum chambers
[NASA-CASE-MFS-14685] c31 N71-15689
Design and development of active control system for air cushion vehicle to reduce or eliminate effects of excessive vertical vibratory acceleration
[NASA-CASE-LAR-10531-1] c02 N73-13023
Open tube guideway for high speed air cushioned vehicles
[NASA-CASE-LAR-10256-1] c85 N74-34672
GROUND HANDLING
Supporting and protecting frame structure and plug for empty thrust chamber assembly, handling, and shipping
[NASA-CASE-XMF-00580] c11 N70-35383
GROUND STATIONS
Traffic control system for supersonic transports using synchronous satellite for data relay between vehicles and ground station
[NASA-CASE-GSC-10087-1] c02 N71-19287
Spacecraft transponder and ground station radar system for mapping planetary surfaces
[NASA-CASE-NPO-11001] c07 N72-21118
Ultra stable frequency distribution system
[NASA-CASE-NPO-13836-1] c32 N76-31373
GROUND SUPPORT EQUIPMENT
Equipment for testing of ground station ranging equipment and spacecraft transponders
[NASA-CASE-XMS-05454-1] c07 N71-12391
Controlled release device for use in launching rockets or missiles
[NASA-CASE-XKS-03338] c15 N71-24043
GROUND-AIR-GROUND COMMUNICATIONS
Fabry-Perot interferometer retrodirective reflector modulator for optical communication
[NASA-CASE-NGS-04480] c16 N69-27491
Closed loop radio communication ranging system to determine distance between moving airborne vehicle and fixed ground station
[NASA-CASE-XNP-01501] c21 N70-41930
Location identification system with ground based transmitter and aircraft borne receiver/decoder
[NASA-CASE-ERC-10324] c07 N72-25173
GROUP VELOCITY
Swept group delay measurement
[NASA-CASE-NPO-13909-1] c33 N77-17358
GUIDANCE (MOTION)
Hovering type flying vehicle design and principle mechanisms for manned or unmanned use
[NASA-CASE-MSC-12111-1] c02 N71-11039
Development of adjustable attitude guide block for setting pins perpendicular to irregular convex work surface
[NASA-CASE-XLA-07911] c15 N71-15571
Longitudinalfilm gate and lock mechanism for securing film in motion picture cameras under vibration and high acceleration loads
[NASA-CASE-LAR-10686] c14 N71-28935

Combination guide and rotary bearing for freely moving shaft
[NASA-CASE-XLA-00013] c15 N71-29136
Guide member for stabilizing cable of open shaft elevator
[NASA-CASE-KSC-10513] c15 N72-25453
GUIDANCE SENSORS
Light sensitive digital aspect sensor for attitude control of earth satellites or space probes
[NASA-CASE-XGS-00359] c14 N70-34158
Guidance analyzer having suspended spacecraft simulating sphere for astronavigation
[NASA-CASE-XNP-09572] c14 N71-15621
Optical gauging system for monitoring machine tool alignment
[NASA-CASE-XAC-09489-1] c15 N71-26673
Development of light sensing system for controlled orientation of object relative to sun or other light source
[NASA-CASE-NPO-11311] c14 N72-25414
Sun direction detection system
[NASA-CASE-NPO-13722-1] c74 N77-22951
GUN LAUNCHERS
Self-obturating gas-operated launcher for launching projectiles in decontaminated medium
[NASA-CASE-NPO-11013] c11 N72-22247
GUN PROPELLANTS
Nitramine propellants
[NASA-CASE-NPO-14103-1] c28 N77-25346
GUNN EFFECT
Voltage tunable Gunn effect semiconductor for microwave generation
[NASA-CASE-XER-07894] c09 N71-18721
Gunn effect microwave diodes with RF shielding
[NASA-CASE-ERC-10119] c26 N72-21701
Multiterminal Gunn-type semiconductor microwave generator for producing stable signals
[NASA-CASE-XER-07895] c26 N72-25679
Microwave generator using Gunn effect for magnetic tuning
[NASA-CASE-NPO-12106] c09 N73-15235
GUNS
Method of peening and portable peening gun
[NASA-CASE-MFS-23047-1] c37 N76-18454
GYRATORS
Design of gyrator circuit using operational amplifiers to replace ungrounded inductors
[NASA-CASE-XAC-10608-1] c09 N71-12517
Gyrator circuit using MOS field effect transistors
[NASA-CASE-MFS-21433] c09 N73-20232
Integrated P-channel MOS gyrator
[NASA-CASE-MFS-22343-1] c33 N74-34638
Integrable power gyrator --- with Z-matrix design using parallel transistors
[NASA-CASE-MFS-22342-1] c33 N75-30428
GYROSCOPES
Externally pressurized air bearing for gyros operating in high temperature, low gravity environments
[NASA-CASE-XMF-00515] c15 N70-34664
Air bearings for spacecraft gyros
[NASA-CASE-XMF-00339] c15 N70-39896
Development of spacecraft experiment pointing and attitude control system
[NASA-CASE-XLA-05464] c21 N71-14132
Temperature compensated digital inertial sensor --- circuit for maintaining inertial element of gyroscope or accelerometer at constant position
[NASA-CASE-NPO-13044-1] c35 N74-15094
All sky pointing attitude control system
[NASA-CASE-ARC-10716-1] c35 N77-20399
GYROSTABILIZERS
Passive dual spin misalignment compensators --- gyrostabilized device
[NASA-CASE-GSC-11479-1] c35 N74-28097
Annular momentum control device used for stabilization of space vehicles and the like
[NASA-CASE-LAR-11051-1] c15 N76-14158

H

HAFNIUM
Thermal shock resistant hafnia ceramic materials
[NASA-CASE-LAR-10894-1] c18 N73-14584
HALIDES
Grinding mixtures of powdered metals and inert fillers for conversion to halide
[NASA-CASE-LEW-10450-1] c15 N72-25448
Zinc-halide battery with molten electrolyte
[NASA-CASE-NPO-11961-1] c44 N76-18643
HALL EFFECT
Current measurement by use of Hall effect generator
[NASA-CASE-XAC-01662] c14 N71-23037
Brushless dc tachometer design with Hall effect crystals and output voltage magnitude proportional to rotor speed
[NASA-CASE-MFS-20385] c09 N71-24904
Development of Hall effect transducer for converting mechanical shaft rotations into proportional electrical signals
[NASA-CASE-LAR-10620-1] c09 N72-25255
Speed control system for dc motor equipped with brushless Hall effect device
[NASA-CASE-MFS-20207-1] c09 N73-32107
Hall effect magnetometer
[NASA-CASE-LEW-11632-2] c35 N75-13213
HALL GENERATORS
Current measurement by use of Hall effect generator
[NASA-CASE-XAC-01662] c14 N71-23037
HALOGENS
Modification of polyurethanes with alkyl halide resins, inorganic salts, and encapsulated volatile and reactive halogen for fuel fire control
[NASA-CASE-ARC-10098-1] c06 N71-24739
HAMMERS
Exponential horn, copper plate, magnetic hammer, and anvil in apparatus for making diamonds
[NASA-CASE-MFS-20698] c15 N72-20446
HAND (ANATOMY)
Mechanically operated hand which can depress trigger using touch control device
[NASA-CASE-MFS-20413] c15 N72-21463
Therapeutic hand exerciser
[NASA-CASE-LAR-11667-1] c52 N76-19785
Compact artificial hand
[NASA-CASE-NPO-13906-1] c54 N77-32723
HANDLING EQUIPMENT
Supporting and protecting frame structure and plug for empty thrust chamber assembly, handling, and shipping
[NASA-CASE-XMF-00580] c11 N70-35383
Handling tool for printed circuit cards
[NASA-CASE-MFS-20453] c15 N71-29133
Collapsible corrugated horn antenna
[NASA-CASE-LAR-11745-1] c32 N77-24339
HARDENING (MATERIALS)
Method of heat treating age-hardenable alloys
[NASA-CASE-XNP-01311] c26 N75-29236
HARMONIC GENERATORS
Wideband generator for producing sine wave quadrature and second harmonic of input signal
[NASA-CASE-NPO-11133] c10 N72-20223
HARNESSES
Helmet and torso tiedown mechanism for shortening pressure suits upon inflation
[NASA-CASE-XMS-00784] c05 N71-12335
One hand backpack harness
[NASA-CASE-LAR-10102-1] c05 N72-23085
Shoulder harness and lap belt restraint system
[NASA-CASE-ARC-10519-2] c05 N75-25915
HATCHES
Design and specifications of emergency escape system for spacecraft structures
[NASA-CASE-MSC-12086-1] c05 N71-12345
HEART
EKG and ultrasonoscope display
[NASA-CASE-ARC-10994-2] c52 N77-15619
HEART FUNCTION
Development of instantaneous reading tachometer for measuring electrocardiogram signal rate
[NASA-CASE-MFS-20418] c14 N73-24473
Ultrasonic biomedical measuring and recording apparatus --- for recording motion of internal organs such as heart valves
[NASA-CASE-ARC-10597-1] c52 N74-20726
HEART RATE
Digital cardiotachometer incorporating circuit for measuring heartbeat rate of subject over predetermined portion of one minute also converting rate to beats per minute
[NASA-CASE-XMS-02399] c05 N71-22896
Development of instantaneous reading tachometer for measuring electrocardiogram signal rate

[NASA-CASE-MFS-20418] c14 N73-24473
Digital computing cardiotachometer
[NASA-CASE-MFS-20284-1] c52 N74-12778
HEAT
Thermionic converter for converting heat energy directly into electrical energy
[NASA-CASE-XLE-01903] c22 N71-23599
HEAT EXCHANGERS
Electrothermal rocket engine using resistance heated heat exchanger
[NASA-CASE-XLE-00267] c28 N70-33356
Space suit body heat exchanger design composed of thermal conductance yarn and liquid coolant loops
[NASA-CASE-XMS-09571] c05 N71-19439
Dual solid cryogens for spacecraft refrigeration insuring low temperature cooling for extended periods
[NASA-CASE-GSC-10188-1] c23 N71-24725
Shell-side liquid metal boiler employing tube and shell heat exchanger
[NASA-CASE-NPO-10831] c33 N72-20915
Heat exchanger and decontamination system for multistage refrigeration unit
[NASA-CASE-NPO-10634] c23 N72-25619
Heat exchanger --- rocket combustion chambers and cooling systems
[NASA-CASE-LEW-12252-1] c34 N75-19579
A heat exchanger and method of making
[NASA-CASE-LEW-12441-1] c34 N75-19580
Condensate removal device for heat exchanger
[NASA-CASE-MSC-14143-1] c77 N75-20139
Heat exchanger system and method
[NASA-CASE-LAR-10799-2] c34 N76-17317
Heat transfer device
[NASA-CASE-MFS-22938-1] c34 N76-18374
Heat exchanger
[NASA-CASE-MFS-22991-1] c34 N77-10463
A thermal energy transformer
[NASA-CASE-NPO-14058-1] c44 N77-30616
Flat-plate heat pipe
[NASA-CASE-GSC-11998-1] c34 N77-32413
HEAT FLUX
Heat flux sensor assembly with proviso for heat shield to reduce radiative transfer between sensor elements
[NASA-CASE-XMS-05909-1] c14 N69-27459
Heat flux sensor adapted for mounting on aircraft or spacecraft to measure aerodynamic heat flux inflow to aircraft skin
[NASA-CASE-XFR-03802] c33 N71-23085
Radial heat flux transformer for use in heating and cooling processes
[NASA-CASE-NPO-10828] c33 N72-17948
HEAT MEASUREMENT
Electromagnetic energy detection by thermal sensor with vibrating electrode
[NASA-CASE-XAC-10768] c09 N71-18830
Specific wavelength colorimeter --- for measuring given solute concentration in test sample
[NASA-CASE-MSC-14081-1] c35 N74-27860
HEAT PIPES
Electric power system utilizing thermionic plasma diodes in parallel and heat pipes as cathodes
[NASA-CASE-XMF-05843] c03 N71-11055
Microwave power receiving antenna solving heat dissipation problems by construction of elements as heat pipe devices
[NASA-CASE-MFS-20333] c09 N71-13486
Double-wall isothermal cylinder containing heat transfer fluid thermal reservoir as spacecraft insulation cover
[NASA-CASE-MFS-20355] c33 N71-25353
Structural heat pipe --- for spacecraft wall thermal insulation system
[NASA-CASE-GSC-11619-1] c34 N75-12222
Method of forming a wick for a heat pipe
[NASA-CASE-NPO-13391-1] c34 N76-27515
Production of I-123
[NASA-CASE-LEW-11390-3] c25 N76-29379
HEAT PUMPS
Thermal pump-compressor for converting solar energy
[NASA-CASE-XLA-00377] c33 N71-17610
Manually activated heat pump for mechanically converting human operator output into heat energy
[NASA-CASE-NPO-10677] c05 N72-11084
Design and development of thermomechanical pump for transmitting warming fluid through fluid circuit to control temperature of spacecraft instrumentation
[NASA-CASE-NPO-11417] c15 N73-24513
Magnetic heat pumping
[NASA-CASE-LEW-12508-1] c34 N77-15343
Magnetic heat pumping
[NASA-CASE-LEW-12508-2] c34 N77-32435
HEAT RADIATORS
Capillary radiator for carrying heat transfer liquid in planetary spacecraft structures
[NASA-CASE-XLE-03307] c33 N71-14035
Hydraulic actuator design for space deployment of heat radiators
[NASA-CASE-MSC-11817-1] c15 N71-26611
Development of method and equipment for testing heat radiative properties of material under controlled environmental conditions
[NASA-CASE-MFS-20096] c14 N71-30026
HEAT RESISTANT ALLOYS
Preparation of nickel alloys for jet turbine blades operating at high temperatures
[NASA-CASE-XLE-00151] c17 N70-33283
Nickel alloy series for aerospace structures subjected to high temperatures
[NASA-CASE-XLE-00283] c17 N70-36616
High temperature cobalt-base alloy resistant to corrosion by liquid metals and to sublimation in vacuum environment
[NASA-CASE-XLE-02991] c17 N71-16025
Brazing alloy adapted for brazing corrosion resistant steel to refractory metals, also for brazing refractory metals to other refractory metals
[NASA-CASE-XNP-03063] c17 N71-23365
Superalloys from prealloyed powders at high temperatures
[NASA-CASE-LEW-10805-1] c15 N73-13465
Method of making pressure tight seal for super alloy
[NASA-CASE-LAR-10170-1] c37 N74-11301
Method of forming articles of manufacture from superalloy powders
[NASA-CASE-LEW-10805-2] c37 N74-13179
Refractory porcelain enamel passive control coating for high temperature alloys
[NASA-CASE-MFS-22324-1] c27 N75-27160
Cermet composition and method of fabrication --- heat resistant alloys and powders
[NASA-CASE-NPO-13120-1] c27 N76-15311
Metallic hot wire anemometer --- for high speed wind tunnel tests
[NASA-CASE-ARC-10911-1] c35 N77-20400
Method of growing composites of the type exhibiting the Soret effect --- improved structure of eutectic alloy crystals
[NASA-CASE-MFS-22926-1] c24 N77-27187
Directionally solidified eutectic gamma plus beta nickel-base superalloys
[NASA-CASE-LEW-12906-1] c26 N77-32279
Nickel base alloy --- for gas turbine engine stator vanes
[NASA-CASE-LEW-12270-1] c26 N77-32280
HEAT SHIELDING
Heat flux sensor assembly with proviso for heat shield to reduce radiative transfer between sensor elements
[NASA-CASE-XMS-05909-1] c14 N69-27459
Oven for heat treating heat shields
[NASA-CASE-XMS-04318] c15 N69-27871
Compact heat shielding for interplanetary space vehicles
[NASA-CASE-XMS-00486] c33 N70-33344
Sandwich panel structure for removing heat from shield between hot and cold areas
[NASA-CASE-XLA-00349] c33 N70-37979
Aerodynamic configuration of reentry vehicle heat shield to provide longitudinal and directional stability at hypersonic velocities
[NASA-CASE-XMS-04142] c31 N70-41631
Transpirationally cooled heat ablation system for interplanetary spacecraft reentry shielding
[NASA-CASE-XMS-02677] c31 N70-42075
Synthesis of azine polymers for heat shields by azine-aromatic aldehyde reaction
[NASA-CASE-XMF-08656] c06 N71-11242

Synthesis of schiff bases for heat shields by acetal amine reactions
[NASA-CASE-XMF-08652] c06 N71-11243
Preparation and characteristics of lightweight refractory insulation
[NASA-CASE-XMF-05279] c18 N71-16124
Development and characteristics of thermal radiation shielding of refractory metal foil used for induction furnace
[NASA-CASE-XLE-03432] c33 N71-24145
Design and development of spacecraft with outer shell structure heat shielding and built-in, removable excursion module
[NASA-CASE-MSC-13047-1] c31 N71-25434
Structure of fabric layers for micrometeoroid protection garment with capability for eliminating heat shorts for use in manufacturing space suits
[NASA-CASE-MSC-12109] c18 N71-26285
Thermal insulation protection means
[NASA-CASE-MSC-12737-1] c34 N77-22423
Thermal insulation attaching means --- adhesive bonding of felt vibration isolators under ceramic tiles
[NASA-CASE-MSC-12619-2] c16 N77-31237

HEAT SINKS
Thermal conductive, electrically insulated cleavable adhesive connection between electronic module and heat sink
[NASA-CASE-XMS-02087] c09 N70-41717
Development and characteristics of calorimeter with integral heat sink for maintenance of constant temperature
[NASA-CASE-XMF-04208] c33 N71-29051
Electroexplosive device
[NASA-CASE-NPO-13858-1] c28 N77-17258
Tubular sublimatory evaporator heat sink
[NASA-CASE-ARC-10912-1] c34 N77-19353
Compact pulsed laser having improved heat conductance
[NASA-CASE-NPO-13147-1] c36 N77-25502

HEAT SOURCES
Black body radiometer design with temperature sensing and cavity heat source cone winding
[NASA-CASE-XNP-09701] c14 N71-26475
Thermally cascaded thermoelectric generator with radicisotopic heat source
[NASA-CASE-NPO-10753] c03 N72-26031
Protected isotope heat source --- for atmospheric reentry protection and heat transmission to spacecraft
[NASA-CASE-LEW-11227-1] c73 N75-30876

HEAT STORAGE
Solar energy trap
[NASA-CASE-MFS-22744-1] c44 N76-24696
Portable, linear-focused solar thermal energy collecting system
[NASA-CASE-NPO-13734-1] c44 N76-26690
Thermal energy storage system --- operating on superheating of liquids
[NASA-CASE-MFS-23167-1] c44 N76-31667

HEAT TRANSFER
Thermal switch for transferring excess heat from one region to another heat dissipating one
[NASA-CASE-XNP-00463] c33 N70-36847
Sandwich panel structure for removing heat from shield between hot and cold areas
[NASA-CASE-XLA-00349] c33 N70-37979
Apparatus for cryogenic liquid storage with heat transfer reduction and for liquid transfer at zero gravity conditions
[NASA-CASE-XLE-00345] c15 N70-38020
Method for improving heat transfer characteristics in nucleate boiling process
[NASA-CASE-XMS-04268] c33 N71-16277
Design and development of device for cooling inner conductor of coaxial cable
[NASA-CASE-XNP-09775] c09 N71-20445
Heat sensing instrument, using thermocouple junction connected under heavy conducting material
[NASA-CASE-XLA-01551] c14 N71-22989
Mixed liquid and vapor phase analyzer design with thermocouples for relative heat transfer measurement
[NASA-CASE-NPO-10691] c14 N71-26199
Development and characteristics of cooling system to maintain temperature of rack mounted electronic modules
[NASA-CASE-MSC-12389] c33 N71-29052
Development of method and equipment for testing heat radiative properties of material under controlled environmental conditions
[NASA-CASE-MFS-20096] c14 N71-30026
Manually activated heat pump for mechanically converting human operator output into heat energy
[NASA-CASE-NPO-10677] c05 N72-11084
High intensity radiant energy pulse source for calibrating heat transfer gages with thermoluminescent shutter activation
[NASA-CASE-ARC-10178-1] c09 N72-17152
Development of thermocouple instrument for measuring temperature of wall heated by flowing fluid without disturbing boundary layer
[NASA-CASE-XLE-05230] c14 N72-27410
Development and characteristics of thermal control system for maintaining constant temperature within spacecraft module with wide variations of component heat transfer
[NASA-CASE-GSC-11018-1] c31 N73-30829
Thermal flux transfer system for maintaining thrust chamber of operative reaction motor at given temperatures
[NASA-CASE-NPO-12070-1] c28 N73-32606
Electrostatically controlled heat transfer system for conducting thermal energy
[NASA-CASE-NPO-11942-1] c33 N73-32818
Heat transfer device
[NASA-CASE-NPO-11120-1] c34 N74-18552
Heat exchanger
[NASA-CASE-MFS-22991-1] c34 N77-10463

HEAT TRANSMISSION
Heat flow calorimeter --- measures output of Ni-Cd batteries
[NASA-CASE-GSC-11434-1] c34 N74-27859
Protected isotope heat source --- for atmospheric reentry protection and heat transmission to spacecraft
[NASA-CASE-LEW-11227-1] c73 N75-30876

HEAT TREATMENT
High speed infrared furnace
[NASA-CASE-XLE-10466] c17 N69-25147
Oven for heat treating heat shields
[NASA-CASE-XMS-04318] c15 N69-27871
Vacuum method for molding thermosetting compounds used as ablative materials
[NASA-CASE-XLA-01091] c15 N71-10672
Production of refractory bodies with controlled porosity by pressing and heating mixtures of refractory and inert metal powders
[NASA-CASE-LEW-10393-1] c17 N71-15468
White paint production by heating impure aluminum silicate clay having low solar absorptance
[NASA-CASE-XNP-02139] c18 N71-24184
Method for diffusion welding dissimilar metals in vacuum chamber
[NASA-CASE-GSC-10303] c15 N72-22487
Method of heat treating a formed powder product material
[NASA-CASE-LEW-10805-3] c26 N74-10521
Diffusion welding --- heat treatment of nickel alloys following single step vacuum welding process
[NASA-CASE-LEW-11388-2] c37 N74-21055
Heat sterilizable patient ventilator
[NASA-CASE-NPO-13313-1] c54 N75-27761
Method of heat treating age-hardenable alloys
[NASA-CASE-XNP-01311] c26 N75-29236
Method for detecting pollutants --- through chemical reactions and heat treatment
[NASA-CASE-LAR-11405-1] c45 N76-31714

HEATERS
Reliable electrical element heater using plural wire system and backup power sources
[NASA-CASE-MFS-21462-1] c33 N74-14935

HEATING
Development of system for preheating vaporized fuel for use with internal combustion engines
[NASA-CASE-NPO-12072] c28 N72-22772
Diffusion welding in air --- solid state welding of butt joint by fusion welding, surface cleaning, and heating
[NASA-CASE-LEW-11387-1] c37 N74-18128

HEATING EQUIPMENT
Using heat control unit to preheat circulating fluid

[NASA-CASE-XMF-04237] c33 N71-16278
Electric arc heater with supersonic nozzle and fixed arc length for use in high temperature wind tunnels
[NASA-CASE-XAC-01677] c09 N71-20816
Radial heat flux transformer for use in heating and cooling processes
[NASA-CASE-NPO-10828] c33 N72-17948
Self-cycling fluid heater for heating continuous fluid stream to ultrahigh temperatures to facilitate chemical reactions
[NASA-CASE-MSC-15567-1] c33 N73-16918

HELICAL ANTENNAS
Weatherproof helix antenna
[NASA-CASE-XKS-08485] c07 N71-19493
Collapsible high gain antenna which can be automatically expanded to operating state
[NASA-CASE-KSC-10392] c07 N73-26117

HELICOPTER DESIGN
Automatically lockable axially extensible strut --- for helicopters
[NASA-CASE-LAR-11900-1] c05 N77-18134

HELICOPTER WAKES
Variable geometry rotor system for direct control over wake vortex
[NASA-CASE-LAR-10557] c02 N72-11018

HELICOPTERS
Hingeless helicopter rotor with improved stability
[NASA-CASE-ARC-10807-1] c05 N77-17029
Nondestructive method for instrumenting helicopter rotor blades
[NASA-CASE-LAR-11201-1] c35 N77-22452
Constant lift rotor for a heavier than air craft
[NASA-CASE-ARC-11045-1] c05 N77-28111

HELIUM
Helium refining by superfluidity
[NASA-CASE-XNP-00733] c06 N70-34946
Apparatus and method capable of receiving large quantity of high pressure helium, removing impurities, and discharging at received pressure
[NASA-CASE-XMF-06888] c15 N71-24044
Method and apparatus for generating coherent radiation in the ultra-violet region and above by use of distributed feedback
[NASA-CASE-NPO-13346-1] c36 N76-29575
Cryostat system for temperatures on the order of 2 deg K or less
[NASA-CASE-NPO-13459-1] c31 N77-10229
Stabilization of He2(a-3 Sigmau(+)) molecules in liquid helium by optical pumping for vacuum UV laser
[NASA-CASE-NPO-13993-1] c36 N77-24468

HELIUM IONS
Charge transfer reaction laser with preionization means
[NASA-CASE-NPO-13945-1] c36 N77-19418

HELIUM-NEON LASERS
Design and development of multichannel laser remote control system using modulated helium-neon laser as transmitter and light collector as receiving antenna
[NASA-CASE-LAR-10311-1] c16 N73-16536

HELMETS
Transparent polycarbonate resin, shell helmet and latch design for high altitude and space flight
[NASA-CASE-XMS-04935] c05 N71-11190
Electrode attached to helmets for detecting low level signals from skin of living creatures
[NASA-CASE-ARC-10043-1] c05 N71-11193
Venting device for pressurized space suit helmet to eliminate vomit expelled by crewmen
[NASA-CASE-XMS-09652-1] c05 N71-26333

HEMISPHERICAL SHELLS
Light baffle with oblate hemispheroid surface and shading flange
[NASA-CASE-NPO-10337] c14 N71-15604

HERMETIC SEALS
Piston in bore cutter for severing parachute control lines and sealing cable hole to prevent water leakage into load
[NASA-CASE-XMS-04072] c15 N70-42017
Hermetically sealed explosive release mechanism for actuator device
[NASA-CASE-XGS-00824] c15 N71-16078
Sealing apparatus for joining two pieces of frangible materials
[NASA-CASE-XLA-01494] c15 N71-24164
Method for locating leaks in hermetically sealed containers
[NASA-CASE-ERC-10045] c15 N71-24910
Hermetically sealed vibration damper design for use in gimbal assembly of spacecraft inertial guidance system
[NASA-CASE-MSC-10959] c15 N71-26243
Method of forming ceramic to metal seals impervious to gaseous and liquid mercury at high temperature
[NASA-CASE-XNP-01263-2] c15 N71-26312
Pressure seals suitable for use in environmental test chambers
[NASA-CASE-NPO-10796] c15 N71-27068
Hermetic sealing device for ends of tubular bodies during materials testing operations
[NASA-CASE-NPO-10431] c15 N71-29132
Hermetically sealed elbow actuator for use in severe environments
[NASA-CASE-MFS-14710] c09 N72-22195
Heat transfer device
[NASA-CASE-NPO-11120-1] c34 N74-18552
Device for tensioning test specimens within an hermetically sealed chamber
[NASA-CASE-MFS-23281-1] c35 N77-22450

HEXOKINASE
Use of enzyme hexokinase and glucose to reduce inherent light levels of ATP in luciferase compositions
[NASA-CASE-XGS-05533] c04 N69-27487

HIGH ACCELERATION
Astronaut restraint suit for high acceleration protection
[NASA-CASE-XAC-00405] c05 N70-41819

HIGH ALTITUDE
Compact bellows spirometer for high speed and high altitude space travel
[NASA-CASE-XAR-01547] c05 N69-21473

HIGH ALTITUDE ENVIRONMENTS
Method of making solid propellant rocket motor having reliable high altitude capabilities, long shelf life, and capable of firing with nozzle closure with foamed plastic permanent mandrel
[NASA-CASE-XLA-04126] c28 N71-26779

HIGH ASPECT RATIO
Aerospace configuration with low and high aspect ratio variability for high and low speed flight
[NASA-CASE-XLA-00142] c02 N70-33286
Aerodynamic configuration for aircraft capable of high speed flight and low drag for low speed takeoff or landing upon presently existing airfields
[NASA-CASE-XLA-00806] c02 N70-34858

HIGH CURRENT
High voltage, high current Schottky barrier solar cell
[NASA-CASE-NPO-13482-1] c44 N74-30448

HIGH FREQUENCIES
Apparatus for ballasting high frequency transistors
[NASA-CASE-XGS-05003] c09 N69-24318
Holder for high frequency crystal resonators
[NASA-CASE-XNP-03637] c15 N71-21311
Multiple varactor for generating high frequencies with high power and high conversion efficiency
[NASA-CASE-XMF-04958-1] c10 N71-26414

HIGH PASS FILTERS
Radio frequency coaxial filter to provide dc isolation and low frequency signal rejection in audio range
[NASA-CASE-XGS-01418] c09 N71-25573

HIGH POLYMERS
Shock and vibration damping device using temperature sensitive solid amorphous polymers
[NASA-CASE-XAC-11225] c14 N69-27486

HIGH PRESSURE
High-temperature, high-pressure spherical segment valve
[NASA-CASE-XAC-00074] c15 N70-34817
High pressure four-way valve with O ring adapted to pass across inlet port
[NASA-CASE-XNP-00214] c15 N70-36908
Compact high pressure filter for rocket fuel lines
[NASA-CASE-XNP-00732] c28 N70-41447
Antiflutter check valve for use with high pressure fluid flow
[NASA-CASE-XNP-01152] c15 N70-41811

High pressure liquid flow sight assembly for wide temperature range applications including cryogenic fluids
[NASA-CASE-XLE-02998] c14 N70-42074
Structural design of high pressure regulator valve
[NASA-CASE-XNP-00710] c15 N71-10778
Hypersonic test facility for studying ablation in models under high pressure and high temperature
[NASA-CASE-XLA-00378] c11 N71-15925
Development and characteristics of high pressure control valve
[NASA-CASE-MSC-11010] c15 N71-19485
Valve seat with resilient support ring for venting valves subjected to high pressure sealing loads
[NASA-CASE-XKS-02582] c15 N71-21234
Apparatus and method capable of receiving large quantity of high pressure helium, removing impurities, and discharging at received pressure
[NASA-CASE-XMF-06888] c15 N71-24044
Liquid aerosol dispenser with explosively driven piston to compress light gas to extremely high pressure
[NASA-CASE-MFS-20829] c12 N72-21310
Shaft seal assembly for high speed and high pressure applications
[NASA-CASE-LEW-11873-1] c37 N77-27404

HIGH RESOLUTION
High resolution radar transmitting system for transmitting optical pulses to targets
[NASA-CASE-NPO-11426] c07 N73-26119
High resolution Fourier interferometer-spectrophotopolarimeter
[NASA-CASE-NPO-13604-1] c35 N76-31490

HIGH SPEED
Compact bellows spirometer for high speed and high altitude space travel
[NASA-CASE-XAR-01547] c05 N69-21473
High speed low level voltage commutating switch
[NASA-CASE-XAC-00060] c09 N70-39915
Impact testing machine for imparting large impact forces on high velocity packages
[NASA-CASE-XNP-04817] c14 N71-23225
Flow meter for measuring stagnation pressure in boundary layer around high speed flight vehicle
[NASA-CASE-XFR-02007] c12 N71-24692
Method for reducing mass of ball bearings for long life operation at high speed
[NASA-CASE-LEW-10856-1] c15 N72-22490
Two stage light gas-plasma projectile accelerator
[NASA-CASE-MFS-22287-1] c75 N76-14931
Selective data segment monitoring system --- using shift registers
[NASA-CASE-ARC-10899-1] c60 N77-19760
Shaft seal assembly for high speed and high pressure applications
[NASA-CASE-LEW-11873-1] c37 N77-27404

HIGH SPEED CAMERAS
Electrically operated rotary shutter for television camera aboard spacecraft
[NASA-CASE-XNP-00637] c14 N70-40273

HIGH STRENGTH
Method for making fiber composites with high strength at high temperatures
[NASA-CASE-LEW-10424-2-2] c18 N72-25539

HIGH STRENGTH ALLOYS
High strength, corrosion resistant cobalt-based alloys for aerospace structures
[NASA-CASE-XLE-00726] c17 N71-15644
High strength aluminum casting alloy for cryogenic applications in aerospace engineering
[NASA-CASE-XMF-02786] c17 N71-20743
Production of high strength refractory compounds and microconstituents into refractory metal matrix
[NASA-CASE-XLE-03940] c18 N71-26153
High strength nickel based alloys
[NASA-CASE-LEW-10874-1] c17 N72-22535
Cobalt-tungsten alloys with superior strength at elevated temperatures
[NASA-CASE-LEW-10436-1] c17 N73-32415

HIGH STRENGTH STEELS
Prevention of hydrogen embrittlement of high strength steel by hydrazine compositions --- by adding potassium hydroxide to hydrazine
[NASA-CASE-NPO-12122-1] c24 N76-14203
High toughness-high strength iron alloy
[NASA-CASE-LEW-12542-1] c26 N77-24254

HIGH TEMPERATURE
High temperature source of thermal radiation
[NASA-CASE-XLE-00490] c33 N70-34545
Thermionic diode switch for use in high temperature region to chop current from dc source
[NASA-CASE-NPO-10404] c03 N71-12255
Hypersonic test facility for studying ablation in models under high pressure and high temperature
[NASA-CASE-XLA-00378] c11 N71-15925
Process for fiberizing ceramic materials with high fusion temperatures and tensile strength
[NASA-CASE-XNP-00597] c18 N71-23088
Induction heating of metallurgical specimens to high temperatures in coil furnace
[NASA-CASE-XLE-04026] c14 N71-23267
Method of forming ceramic to metal seals impervious to gaseous and liquid mercury at high temperature
[NASA-CASE-XNP-01263-2] c15 N71-26312
Method for making fiber composites with high strength at high temperatures
[NASA-CASE-LEW-10424-2-2] c18 N72-25539
Superalloys from prealloyed powders at high temperatures
[NASA-CASE-LEW-10805-1] c15 N73-13465
High temperature beryllium oxide capacitor
[NASA-CASE-LEW-11938-1] c33 N76-15373
Low to high temperature energy conversion system
[NASA-CASE-NPO-13510-1] c44 N77-32581

HIGH TEMPERATURE AIR
Apparatus and method for generating large mass flow of high temperature air at hypersonic speeds
[NASA-CASE-LAR-10612-1] c12 N73-28144

HIGH TEMPERATURE ENVIRONMENTS
High speed infrared furnace
[NASA-CASE-XLE-10466] c17 N69-25147
Nickel alloy series for aerospace structures subjected to high temperatures
[NASA-CASE-XLE-00283] c17 N70-36616
Water cooled gage for strain measurements in high temperature environments
[NASA-CASE-XNP-09205] c14 N71-17657
Tantalum modified ferritic iron base alloys --- for use in high temperature environments
[NASA-CASE-LEW-12095-1] c26 N76-17233
Thermocouples of molybdenum and iridium alloys for more stable vacuum-high temperature performance
[NASA-CASE-LEW-12174-1] c35 N76-19407
Trielectrode capacitive pressure transducer
[NASA-CASE-ARC-10711-2] c33 N76-21390
Integrated structure vacuum tube
[NASA-CASE-ARC-10445-1] c31 N76-31365

HIGH TEMPERATURE FLUIDS
Self-cycling fluid heater for heating continuous fluid stream to ultrahigh temperatures to facilitate chemical reactions
[NASA-CASE-MSC-15567-1] c33 N73-16918

HIGH TEMPERATURE GASES
Multiple wavelength radiation measuring instrument for determining hot body or gas temperature
[NASA-CASE-XLE-00011] c14 N70-41946
Ablative resins used for retarding regression in ablative material
[NASA-CASE-XLE-05913] c33 N71-14032
Transient heat transfer gage for measuring total radiant intensity from far ultraviolet and ionized high temperature gases
[NASA-CASE-XNP-09802] c33 N71-15641
Generation of high temperature, high mass flow, and high Reynolds number air at hypersonic speeds
[NASA-CASE-LAR-10578-1] c12 N73-25262
Isotope separation using metallic vapor lasers
[NASA-CASE-NPO-13550-1] c36 N77-26477

HIGH TEMPERATURE LUBRICANTS
Production of barium fluoride-calcium fluoride composite lubricant for bearings or seals
[NASA-CASE-XLE-08511-2] c18 N71-16105
Self lubricating fluoride-metal composite materials for outer space applications
[NASA-CASE-XLE-08511] c18 N71-23710

HIGH TEMPERATURE PLASMAS
Apparatus for producing highly conductive, high temperature electron plasma with homogenous

temperature and pressure distribution
[NASA-CASE-XLA-00147] c25 N70-34661
HIGH TEMPERATURE PROPELLANTS
Development of system for delivering vaporized mercury to electron bombardment ion engine
[NASA-CASE-NPO-10737] c28 N72-11709
HIGH TEMPERATURE RESEARCH
Gas cooled high temperature thermocouple
[NASA-CASE-XLE-09475-1] c33 N71-15568
Fatigue testing apparatus with light shield and infrared reflector for high temperature evaluation of loaded sheet samples
[NASA-CASE-XLA-01782] c14 N71-26136
High temperature oxidation resistant cermet compositions
[NASA-CASE-NPO-13666-1] c27 N77-13217
HIGH TEMPERATURE TESTS
High-temperature, high-pressure spherical segment valve
[NASA-CASE-XAC-00074] c15 N70-34817
Test apparatus for determining mechanical properties of refractory materials at high temperatures in vacuum or inert atmospheres
[NASA-CASE-XLE-00335] c14 N70-35368
Apparatus for testing metallic and nonmetallic beams or rods by bending at high temperatures in vacuum or inert atmosphere
[NASA-CASE-XLE-01300] c15 N70-41993
HIGH VACUUM
Epoxy resin sealing device for electrochemical cells in high vacuum environments
[NASA-CASE-XGS-02630] c03 N71-22974
Device for high vacuum film deposition with electromagnetic ion steering
[NASA-CASE-NPO-10331] c09 N71-26701
Absolute pressure measuring device for measuring gas density level in high vacuum range
[NASA-CASE-LAR-10000] c14 N73-30394
Thermocouples of molybdenum and iridium alloys for more stable vacuum-high temperature performance
[NASA-CASE-LEW-12174-1] c35 N76-19407
HIGH VACUUM ORBITAL SIMULATOR
Space environmental work simulator with portions of space suit mounted to vacuum chamber wall
[NASA-CASE-XMF-07488] c11 N71-18773
HIGH VOLTAGES
Hollow spherical electrode for shielding dielectric junction between high voltage conductor and insulator
[NASA-CASE-XLE-03778] c09 N69-21542
High voltage cable for use in high intensity ionizing radiation fields
[NASA-CASE-XNP-00738] c09 N70-38201
High voltage pulse generator for testing flash and ignition limits of nonmetallic materials in controlled atmospheres
[NASA-CASE-MSC-12178-1] c09 N71-13518
High voltage transistor circuit
[NASA-CASE-XNP-06937] c09 N71-19516
High voltage divider system for attenuating high voltages to convenient levels suitable for introduction to measuring circuits
[NASA-CASE-XLE-02008] c09 N71-21583
High voltage, high current Schottky barrier solar cell
[NASA-CASE-NPO-13482-1] c44 N74-30448
High voltage distributor
[NASA-CASE-GSC-11849-1] c33 N76-16332
Sustained arc ignition system
[NASA-CASE-LEW-12444-1] c33 N77-28385
HIGHWAYS
Traffic survey system --- using optical scanners
[NASA-CASE-MFS-22631-1] c66 N76-19888
HISTOGRAMS
System for storing histogram data in optimum number of elements
[NASA-CASE-XNP-09785] c08 N69-21928
HOLDERS
Water cooled contactors for holding rotating carbon arc anode
[NASA-CASE-XMS-03700] c15 N69-24266
Quick disconnect latch and handle combination for mounting articles on walls or supporting bases in spacecraft under zero gravity conditions
[NASA-CASE-MFS-11132] c15 N71-17649
Holder for high frequency crystal resonators
[NASA-CASE-XNP-03637] c15 N71-21311
Design and construction of mechanical probe for determining if object is properly secured
[NASA-CASE-MFS-20760] c14 N72-33377
Fifth wheel
[NASA-CASE-FRC-10081-1] c37 N77-14477
Combined docking and grasping device
[NASA-CASE-MFS-23088-1] c37 N77-23483
HOLE DISTRIBUTION (MECHANICS)
Thermocouple installation
[NASA-CASE-NPO-13540-1] c35 N77-14409
HOLE MOBILITY
Hole mobility of deposited semiconductor films in vacuum utilizing thermal gradient
[NASA-CASE-XMS-04614] c15 N69-21460
HOLLOW CATHODES
Dual membrane, hollow fiber fuel cell
[NASA-CASE-NPO-13732-1] c44 N77-19581
HOLOGRAPHY
Development of focused image holography with extended sources
[NASA-CASE-ERC-10019] c16 N71-15551
Hybrid holographic system using reference, transmitted, and reflected beams simultaneously
[NASA-CASE-MFS-20074] c16 N71-15565
Recording and reconstructing focused image holograms
[NASA-CASE-ERC-10017] c16 N71-15567
Method and means for recording and reconstructing holograms without use of reference beam
[NASA-CASE-ERC-10020] c16 N71-26154
Multiple image storing system for obtaining holographic record on film of high speed projectile
[NASA-CASE-MFS-20596] c14 N72-17324
Thin film analyzer utilizing holographic techniques
[NASA-CASE-MFS-20823-1] c16 N73-30476
Method and apparatus for checking the stability of a setup for making reflection type holograms
[NASA-CASE-MFS-21455-1] c35 N74-15146
Real time moving scene holographic camera system
[NASA-CASE-MFS-21087-1] c35 N74-17153
Holography utilizing surface plasmon resonances
[NASA-CASE-MFS-22040-1] c35 N74-26946
Holographic system for nondestructive testing
[NASA-CASE-MFS-21704-1] c35 N75-25124
Real time, large volume, moving scene holographic camera system
[NASA-CASE-MFS-22537-1] c35 N75-27328
Holographic motion picture camera with Doppler shift compensation
[NASA-CASE-MFS-22517-1] c35 N76-18402
Optical process for producing classification maps from multispectral data
[NASA-CASE-MSC-14472-1] c43 N77-10584
HOMING DEVICES
Location identification system with ground based transmitter and aircraft borne receiver/decoder
[NASA-CASE-ERC-10324] c07 N72-25173
HONEYCOMB CORES
Technique for making foldable, inflatable, plastic honeycomb core panels for use in building and bridge structures, light and radio wave reflectors, and spacecraft
[NASA-CASE-XLA-03492] c15 N71-22713
Heat treatment and tooling for forming shapes from thermosetting honeycomb core sheets
[NASA-CASE-NPO-11036] c15 N72-24522
Honeycomb core structures of minimum surface tubule sections
[NASA-CASE-ERC-10363] c18 N72-25541
HONEYCOMB STRUCTURES
Filling honeycomb matrix with deaerated paste filler
[NASA-CASE-XMS-01108] c15 N69-24322
Inflatable honeycomb panel element for lightweight structures usable in space stations and other construction
[NASA-CASE-XLA-00204] c32 N70-36536
Fluid flow control valve for regulating fluids in molecular quantities
[NASA-CASE-XLE-00703] c15 N71-15967
Method and apparatus for fabrication of heat insulating and ablative reentry structure
[NASA-CASE-XMS-02009] c33 N71-20834
Method for honeycomb panel bonding by thermosetting film adhesive with electrical heat means

[NASA-CASE-XMF-01402] c18 N71-21651
Development of thermal insulation material for insulating liquid hydrogen tanks in spacecraft
[NASA-CASE-XMF-05046] c33 N71-28892
Honeycomb panels of minimal surface, periodic tubule layers
[NASA-CASE-ERC-10364] c18 N72-25540
Development of process for bonding resinous body in cavities of honeycomb structures
[NASA-CASE-MSC-12357] c15 N73-12489
Insert facing tool --- manually operated cutting tool for forming studs in honeycomb material
[NASA-CASE-MFS-21485-1] c37 N74-25968
Vacuum pressure molding technique
[NASA-CASE-LAR-10073-1] c37 N76-24575
Honeycomb-laminate composite structure
[NASA-CASE-ARC-10913-1] c24 N76-26286
Composite sandwich lattice structure
[NASA-CASE-LAR-11898-1] c24 N77-15103
Low density bismaleimide-carbon microballoon composites
[NASA-CASE-ARC-11040-1] c24 N77-19173

HOPPERS
Design and development of device to prevent clogging in hoppers containing particulate materials
[NASA-CASE-LAR-10961-1] c15 N73-12496

HORIZON SCANNERS
Oscillatory electromagnetic mirror drive system for horizon scanners
[NASA-CASE-XLA-03724] c14 N69-27461
Multi-lobar scan horizon sensor
[NASA-CASE-XGS-00809] c21 N70-35427
Attitude orientation control of spin stabilized final stage space vehicles, using horizon scanners
[NASA-CASE-XLA-00281] c21 N70-36943
Clamped amplifier circuit for horizon scanner enabling amplification and accurate measurement of specified parameters
[NASA-CASE-XGS-01784] c10 N71-20782
Horizon sensor design with digital sampling of spaced radiation-compensated thermopile infrared detectors
[NASA-CASE-XNP-06957] c14 N71-21088
Method and equipment for locating earth infrared horizon from space, independent of season and latitude
[NASA-CASE-LAR-10726-1] c14 N73-20475

HORIZONTAL SPACECRAFT LANDING
Delta winged, manned reentry vehicle capable of horizontal glide landing at low speeds
[NASA-CASE-XLA-00241] c31 N70-37986

HORIZONTAL TAIL SURFACES
Development and characteristics of translating horizontal tail assembly for supersonic aircraft
[NASA-CASE-XLA-08801-1] c02 N71-11043

HORN ANTENNAS
Device for improving efficiency of parabolic horn antenna system for linearly polarized signals
[NASA-CASE-XNP-00611] c09 N70-35219
Device for improving efficiency of parabolic reflector horn for linearly or circularly polarized waves
[NASA-CASE-XNP-00540] c09 N70-35382
Characteristics of antenna horn feeds consisting of central horn with overlapping peripheral horns
[NASA-CASE-GSC-10452] c07 N71-12396
Multiple mode horn antenna with radiation pattern of equal beamwidths and suppressed sidelobes
[NASA-CASE-XNP-01057] c07 N71-15907
Multipurpose microwave antenna, employing dish reflector with plural coaxial horn feeds
[NASA-CASE-NPO-11264] c07 N72-25174
Horn antenna having V-shaped corrugated slots
[NASA-CASE-LAR-11112-1] c32 N76-15330
Highly efficient antenna system using a corrugated horn and scanning hyperbolic reflector
[NASA-CASE-NPO-13568-1] c32 N76-21365
Reflex feed system for dual frequency antenna
[NASA-CASE-NPO-14022-1] c32 N77-24338
Collapsible corrugated horn antenna
[NASA-CASE-LAR-11745-1] c32 N77-24339

HOT CATHODES
Improved cathode containing barium carbonate block and heated tungsten screen for electron bombardment ion thrustor
[NASA-CASE-XLE-07087] c06 N69-39889

HOT PRESSING
Cermet for nuclear fuel constructed by pressing metal coated ceramic particles in die at temperature to cause bonding of metal coatings, and tested for thermal stability
[NASA-CASE-LEW-10219-1] c18 N71-28729

HOT WORKING
Hot forming of plastic sheets
[NASA-CASE-XMS-05516] c15 N71-17803

HOT-WIRE ANEMOMETERS
Metallic hot wire anemometer --- for high speed wind tunnel tests
[NASA-CASE-ARC-10911-1] c35 N77-20400
Method for making a hot wire anemometer and product thereof
[NASA-CASE-ARC-10900-1] c35 N77-24454

HOT-WIRE FLOWMETERS
Hot-wire liquid level detector for cryogenic propellants
[NASA-CASE-XLE-00454] c23 N71-17802

HOUSINGS
Sealed housing for protecting electronic equipment against electromagnetic interference
[NASA-CASE-MSC-12168-1] c09 N71-18600
Open type urine receptacle with tubular housing
[NASA-CASE-MSC-12324-1] c05 N72-22093
Readily assembled universal environment housing for electronic equipment
[NASA-CASE-KSC-10031] c15 N72-22486
Gas flow control device, including housing and input port
[NASA-CASE-NPO-11479] c15 N73-13462
Cryogenic gyroscope housing --- with annular disks for gas spin-up
[NASA-CASE-MFS-21136-1] c35 N74-18323
Heat transfer device
[NASA-CASE-NPO-11120-1] c34 N74-18552
Deformable bearing seat
[NASA-CASE-LEW-12527-1] c37 N77-32500

HOVERING
Hovering type flying vehicle design and principle mechanisms for manned or unmanned use
[NASA-CASE-MSC-12111-1] c02 N71-11039

HUGONIOT EQUATION OF STATE
Determining particle density using known material Hugeniot curves
[NASA-CASE-LAR-11059-1] c76 N75-12810

HULLS (STRUCTURES)
Efficient operation of improved hydrofoil design
[NASA-CASE-XLA-00229] c12 N70-33305

HUMAN BEINGS
Method and apparatus for applying compressional forces to skeletal structure of subject to simulate force during ambulatory conditions
[NASA-CASE-ARC-10100-1] c05 N71-24738
Automatic braking device for rapidly transferring humans or materials from elevated location
[NASA-CASE-XKS-07814] c15 N71-27067

HUMAN BODY
Apparatus for measuring human body mass in zero or reduced gravity environment
[NASA-CASE-XMS-03371] c05 N70-42000
Electromedical garment, applying vectorcardiologic type electrodes to human torsos for data recording during physical activity
[NASA-CASE-XFR-10856] c05 N71-11189
Thermoregulating with cooling flow pipe network for humans
[NASA-CASE-XMS-10269] c05 N71-24147
Tilting table for testing human body in variety of positions while exercising on ergometer or other biomedical devices
[NASA-CASE-MFS-21010-1] c05 N73-30078
Method and system for in vivo measurement of bone tissue using a two level energy source
[NASA-CASE-MSC-14276-1] c52 N77-14737

HUMAN FACTORS ENGINEERING
Shock absorbing couch for body support under high acceleration or deceleration forces
[NASA-CASE-XMS-01240] c05 N70-35152
Harness assembly adapted to support man on ground based apparatus which simulates weightlessness
[NASA-CASE-MFS-14671] c05 N71-12341

Multiple circuit switch apparatus requiring minimum hand and eye movement by operator
[NASA-CASE-XAC-03777] c10 N71-15909
Remote control device operated by movement of finger tips for manual control of spacecraft attitude
[NASA-CASE-XAC-02405] c09 N71-16089
Design and development of flexible tunnel for use by spacecrews in performing extravehicular activities
[NASA-CASE-MSC-12243-1] c05 N71-24728
Development of apparatus and method for quantitatively measuring brain activity as automatic indication of sleep state and level of consciousness
[NASA-CASE-MSC-13282-1] c05 N71-24729
Spacesuit mobility joints
[NASA-CASE-ARC-11058-1] c54 N77-15641
Spacesuit torso closure
[NASA-CASE-ARC-11100-1] c54 N77-25784
Locking mechanism for orthopedic braces
[NASA-CASE-GSC-12082-2] c52 N77-27694

HUMAN PERFORMANCE
Color perception tester for testing color code perceptiveness of individuals
[NASA-CASE-KSC-10278] c05 N72-16015

HUMAN REACTIONS
Reaction tester for testing reaction to light stimuli
[NASA-CASE-MSC-13604-1] c05 N73-13114

HUMAN WASTES
Reduced gravity fecal collector seat and urinal
[NASA-CASE-MFS-22102-1] c54 N74-20725
Automatic biowaste sampling
[NASA-CASE-MSC-14640-1] c54 N76-14804

HUMIDITY
Passive intrusion detection system
[NASA-CASE-NPO-13804-1] c35 N77-19390

HYBRID COMPUTERS
Adaptive voting computer system
[NASA-CASE-MSC-13932-1] c62 N74-14920

HYBRID PROPELLANTS
Liner for hybrid solid propellants to bind propellant to rocket motor case
[NASA-CASE-XNP-09744] c27 N71-16392

HYDRAULIC CONTROL
Shear modulated fluid amplifier of high pressure hydraulic vortex amplifier type
[NASA-CASE-MFS-10412] c12 N71-17578
Throttle valve for regulating fluid flow volume
[NASA-CASE-XNP-09698] c15 N71-18580
Fluidic-thermochromic display device
[NASA-CASE-ERC-10031] c12 N71-18603
Development and characteristics of variable displacement fluid pump for tranforming hydraulic pressures
[NASA-CASE-MFS-20830] c15 N71-30028
Hydraulic drain means for servo-systems
[NASA-CASE-NPO-10316-1] c37 N77-22479

HYDRAULIC EQUIPMENT
Hydraulic support equipment for full scale dynamic testing of large rocket vehicle under free flight conditions
[NASA-CASE-XMF-01772] c11 N70-41677
Hydraulic support apparatus for dynamic testing of space vehicles under near-free flight conditions
[NASA-CASE-XMF-03248] c11 N71-10604
Hydraulic drive mechanism for leveling isolation platforms
[NASA-CASE-XMS-03252] c15 N71-10658
Antibacklash circuit for hydraulic drive system
[NASA-CASE-XNP-01020] c03 N71-12260
Hydraulic clamping of sheet stock specimens
[NASA-CASE-XLA-05100] c15 N71-17696
Design and development of double acting shock absorber for spacecraft docking operations
[NASA-CASE-XMS-03722] c15 N71-21530
Hydraulic apparatus for casting and molding of liquid polymers
[NASA-CASE-XNP-07659] c06 N71-22975
System to control speed of hydraulically movable members by limiting energy applied to actuators with hydraulic servo loop
[NASA-CASE-ARC-10131-1] c15 N71-27754
Development of aircraft control system with high performance electrically controlled and mechanically operated hydraulic valves for precise flight operation
[NASA-CASE-XAC-00048] c02 N71-29128
Development and characteristics of variable displacement fluid pump for tranforming hydraulic pressures
[NASA-CASE-MFS-20830] c15 N71-30028
Design and characteristics of mechanically extended and telescoping boom on crane assembly
[NASA-CASE-NPO-11118] c03 N72-25021
Design and development of device to prevent geysering during convective circulation of cryogenic fluids
[NASA-CASE-KSC-10615] c15 N73-12486
Redundant hydraulic control system for actuators with three main valve combination
[NASA-CASE-MFS-20944] c15 N73-13466
Rocket propellant injector with porous faceplate for rocket engine combustion chamber
[NASA-CASE-LEW-11071-1] c27 N73-27695
Servo valve
[NASA-CASE-LAR-11643-1] c37 N75-13268
Combined pressure regulator and shutoff valve
[NASA-CASE-NPO-13201-1] c37 N75-15050
Ultrasonically bonded value assembly
[NASA-CASE-NPO-13360-1] c37 N75-25185
Filter regeneration systems --- a system for regenerating a system filter in a fluid flow line
[NASA-CASE-MSC-14273-1] c34 N75-33342
Quick disconnect filter coupling
[NASA-CASE-MFS-22323-1] c37 N76-14463
Actuator device for artificial leg
[NASA-CASE-MFS-23225-1] c52 N77-14735

HYDRAULIC FLUIDS
Miniature hydraulic actuator --- for control surfaces on airfoils
[NASA-CASE-LAR-11522-1] c34 N74-34881
Safety flywheel
[NASA-CASE-HQN-10888-1] c37 N77-22484

HYDRAZINE NITROFORM
Solid propellant containing hydrazinium nitroformate oxidizer and polymeric hydrocarbon binder
[NASA-CASE-NPO-12015] c27 N73-16764

HYDRAZINES
Catalyst bed ignition system for hydrazine propellants
[NASA-CASE-XNP-00876] c28 N70-41311
Hydrazine monoperfluoro alkanoate solder flux leaving corrosion resistant coating, for metals such as copper
[NASA-CASE-XNP-03459-2] c18 N71-15688
Rubber composition for expulsion bladders and diaphragms for use with hydrazine
[NASA-CASE-NPO-11433] c18 N71-31140
Prevention of hydrogen embrittlement of high strength steel by hydrazine compositions --- by adding potassium hydroxide to hydrazine
[NASA-CASE-NPO-12122-1] c24 N76-14203

HYDROCARBON FUELS
Apparatus for producing hydrocarbon slurry containing small particles of magnesium for use as jet aircraft fuel
[NASA-CASE-XLE-00010] c15 N70-33382
Hydrogen rich gas generator
[NASA-CASE-NPO-13342-2] c44 N76-29700
Hydrogen rich gas generator
[NASA-CASE-NPO-13464-2] c44 N76-29704

HYDROCARBONS
Solid propellant containing hydrazinium nitroformate oxidizer and polymeric hydrocarbon binder
[NASA-CASE-NPO-12015] c27 N73-16764
Hydrogen rich gas generator
[NASA-CASE-NPO-13342-1] c37 N76-16446
Pyrolysis system and process --- recovering energy from solid wastes containing hydrocarbons
[NASA-CASE-MSC-12669-1] c44 N76-16621
In-situ laser retorting of oil shale
[NASA-CASE-LEW-12217-1] c36 N77-18429
Combustion engine --- for air pollution control
[NASA-CASE-NPO-13671-1] c37 N77-31497

HYDROCHLORIC ACID
Indicator providing continuous indication of the presence of a specific pollutant in air
[NASA-CASE-NPO-13474-1] c45 N76-21742

HYDROFOILS
Efficient operation of improved hydrofoil design
[NASA-CASE-XLA-00229] c12 N70-33305

HYDROFORMING
Cold metal hydroforming techniques using epoxy molds for counteracting creep or stretch
[NASA-CASE-XLF-05641-1] c15 N71-26346
HYDROGEN
Method and transducer device for detecting presence of hydrogen gas
[NASA-CASE-XMF-03873] c06 N69-39733
Preventing pressure buildup in electrochemical cells by reacting palladium oxide with evolved hydrogen
[NASA-CASE-XGS-01419] c03 N70-41864
Development of pulse-activated polarographic hydrogen detector
[NASA-CASE-XMF-06531] c14 N71-17575
Development of device for detecting hydrogen in ambient environments
[NASA-CASE-MFS-11537] c14 N71-20442
Gas chromatographic method for analyzing hydrogen deuterium mixtures
[NASA-CASE-NPO-11322] c06 N72-25146
Hydrogen fire blink detector for high altitude rocket or ground installation
[NASA-CASE-MFS-15063] c14 N72-25412
Separation of dissolved hydrogen from water and coating with palladium black
[NASA-CASE-MSC-13335-1] c06 N72-31140
Atomic hydrogen maser with bulb temperature control by output frequency difference signal for wall shift elimination
[NASA-CASE-HQN-10654-1] c16 N73-13489
Method of producing a storage bulb for an atomic hydrogen maser
[NASA-CASE-NPO-13050-1] c36 N75-15029
Atomic standard with variable storage volume
[NASA-CASE-GSC-11895-1] c35 N76-15436
Hydrogen rich gas generator
[NASA-CASE-NPO-13342-1] c37 N76-16446
Hydrogen-bromine secondary battery
[NASA-CASE-NPO-13237-1] c44 N76-18641
Hydrogen-rich gas generator
[NASA-CASE-NPO-13464-1] c44 N76-18642
Solar hydrogen generator
[NASA-CASE-LAR-11361-1] c44 N77-22607
Solar photolysis of water
[NASA-CASE-NPO-13675-1] c44 N77-32580
HYDROGEN EMBRITTLEMENT
Prevention of hydrogen embrittlement of high strength steel by hydrazine compositions --- by adding potassium hydroxide to hydrazine
[NASA-CASE-NPO-12122-1] c24 N76-14203
HYDROGEN FUELS
Atomic hydrogen storage method and apparatus --- in strong magnetic fields
[NASA-CASE-LEW-12081-1] c28 N76-22399
Hydrogen rich gas generator
[NASA-CASE-NPO-13342-2] c44 N76-29700
Hydrogen rich gas generator
[NASA-CASE-NPO-13464-2] c44 N76-29704
Hydrogen-rich gas generator
[NASA-CASE-NPO-13560-1] c44 N77-10636
HYDROGEN OXYGEN ENGINES
Hydrogen-fueled engine
[NASA-CASE-NPO-13763-1] c37 N77-11398
HYDROGEN OXYGEN FUEL CELLS
Electrolytically regenerative hydrogen-oxygen fuel cells
[NASA-CASE-XLF-04526] c03 N71-11052
Water electrolysis rocket engine with self-regulating stoichiometric fuel mixing regulator
[NASA-CASE-XGS-08729] c28 N71-14044
HYDROGEN PEROXIDE
Unit for generating thrust from catalytic decomposition of hydrogen peroxide, for high altitude aircraft or spacecraft reaction control
[NASA-CASE-XMS-00583] c28 N70-38504
HYDROGENATION
Producing high purity silicon carbide on carbon base by hydrogen reduction of silicon tetrachloride
[NASA-CASE-XLA-00158] c26 N70-36805
Compact hydrogenator
[NASA-CASE-NPO-11682-1] c35 N74-15127
HYDROSTATICS
Hydrostatic bearing support
[NASA-CASE-LEW-11158-1] c37 N77-28486
HYDROXIDES
Method for determining presence and type of OH in MgO
[NASA-CASE-NPO-10774] c06 N72-17095
HYGROMETERS
Polymeric electrolytic hygrometer
[NASA-CASE-NPO-13948-1] c35 N77-28470
HYGROSCOPICITY
Method of evaluating moisture barrier properties of materials used in electronics encapsulation
[NASA-CASE-NPO-10051] c18 N71-24934
HYPERFINE STRUCTURE
Process for producing dispersion strengthened nickel with aluminum comprising metallic matrices embedded with oxides or other hyperfine compounds
[NASA-CASE-XLE-06969] c17 N71-24142
HYPERGOLIC ROCKET PROPELLANTS
Solid propellant ignition with hypergolic fluid injected to predetermined portions of propellant
[NASA-CASE-XLE-00207] c28 N70-33375
Regenerative cooling system for small rocket engine having restart capability and using noncryogenic hypergolic propellants
[NASA-CASE-XLE-00685] c28 N70-41992
Method for igniting solid propellant rocket motors by injecting hypergolic fluids
[NASA-CASE-XLE-01988] c27 N71-15634
HYPERSONIC AIRCRAFT
Multistage aerospace craft --- perspective drawings of conceptual design
[NASA-CASE-XMF-02263] c05 N74-10907
HYPERSONIC FLOW
Design of hypersonic test facility for ablation tests and performance tests of vehicles under conditions of high temperature and pressure
[NASA-CASE-XLA-05378] c11 N71-21475
HYPERSONIC SPEED
Leading edge design for hypersonic reentry vehicles
[NASA-CASE-XLA-00165] c31 N70-33242
Aerospace vehicle with variable planform for hypersonic and subsonic flight
[NASA-CASE-XLA-00805] c31 N70-38010
Variable geometry manned orbital vehicle having high aerodynamic efficiency over wide speed range and incorporating auxiliary pivotal wings
[NASA-CASE-XLA-03691] c31 N71-15674
Supersonic or hypersonic vehicle control system comprising elevons with hinge line sweep and free of adverse aerodynamic cross coupling
[NASA-CASE-XLA-08967] c02 N71-27088
Generation of high temperature, high mass flow, and high Reynolds number air at hypersonic speeds
[NASA-CASE-LAR-10578-1] c12 N73-25262
Apparatus and method for generating large mass flow of high temperature air at hypersonic speeds
[NASA-CASE-LAR-10612-1] c12 N73-28144
HYPERSONIC VEHICLES
Carbon dioxide purge systems to prevent condensation in spaces between cryogenic fuel tanks and hypersonic vehicle skin
[NASA-CASE-XLA-01967] c31 N70-42015
HYPERVELOCITY GUNS
Method and apparatus for use in forming highly collimated beam of microparticles with high charge to mass ratio and injecting beam into electrostatic accelerating tube
[NASA-CASE-XGS-06628] c24 N71-16213
Implosion driven, light gas, hypervelocity gun
[NASA-CASE-XAC-05902] c11 N71-18578
Collapsible piston for hypervelocity gun
[NASA-CASE-MSC-13789-1] c11 N73-32152
HYPERVELOCITY IMPACT
Method of and device for determining the characteristics and flux distribution of micrometeorites --- scanning puncture holes in sheet material with photoelectric cell
[NASA-CASE-NPO-12127-1] c91 N74-13130
Semiconductor projectile impact detector
[NASA-CASE-MFS-23008-1] c35 N76-19405
HYPERVELOCITY PROJECTILES
Impact measuring technique for determining size of hypervelocity projectiles
[NASA-CASE-LAR-10913] c14 N72-16282
Multiple image storing system for obtaining holographic record on film of high speed projectile
[NASA-CASE-MFS-20596] c14 N72-17324

HYPERVELOCITY WIND TUNNELS
Hypersonic test facility for studying ablation in models under high pressure and high temperature
[NASA-CASE-XLA-00378] c11 N71-15925
Design of hypersonic test facility for ablation tests and performance tests of vehicles under conditions of high temperature and pressure
[NASA-CASE-XLA-05378] c11 N71-21475
HYSTERESIS
Belleville spring assembly with elastic guides having low hysteresis
[NASA-CASE-XNP-09452] c15 N69-27504

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IGNITERS
Characteristics of solid propellant rocket engine with controlled rate of thrust buildup operating in vacuum environment
[NASA-CASE-NPO-11559] c28 N73-24784
Remote fire stack igniter --- with solenoid-controlled valve
[NASA-CASE-MFS-21675-1] c25 N74-33378
Molded composite pyrogen igniter for rocket motors
[NASA-CASE-LAR-12018-1] c20 N76-29365
IGNITION
Magnetically controlled plasma accelerator capable of ignition in low density gaseous environment
[NASA-CASE-XLA-00327] c25 N71-29184
IGNITION LIMITS
High voltage pulse generator for testing flash and ignition limits of nonmetallic materials in controlled atmospheres
[NASA-CASE-MSC-12178-1] c09 N71-13518
IGNITION SYSTEMS
Solid propellant ignition with hypergolic fluid injected to predetermined portions of propellant
[NASA-CASE-XLE-00207] c28 N70-33375
Ignition system for monopropellant combustion devices
[NASA-CASE-XNP-00249] c28 N70-38249
Igniter capsule for chemical ignition of liquid rocket propellants
[NASA-CASE-XLE-00323] c28 N70-38505
Catalyst bed ignition system for hydrazine propellants
[NASA-CASE-XNP-00876] c28 N70-41311
Sustained arc ignition system
[NASA-CASE-LEW-12444-1] c33 N77-28385
IGNITION TEMPERATURE
Test chamber for determining decomposition and autoignition of materials used in spacecraft under controlled environmental conditions
[NASA-CASE-KSC-10198] c11 N71-28629
ILLUMINATING
Illumination control apparatus for compensating solar light
[NASA-CASE-KSC-11010-1] c44 N77-15493
ILLUMINATORS
Camera adapter design for image magnification including lens and illuminator
[NASA-CASE-XNP-03844-1] c14 N71-26474
Illumination system design for use as sunlight simulator in space environment simulators with multiple light sources reflected to single virtual source
[NASA-CASE-HQN-10781] c23 N71-30292
IMAGE CONTRAST
Video signal enhancement of signal component representing brightness of scene element in low contrast
[NASA-CASE-NPO-10343] c07 N71-27341
Method and apparatus for producing an image from a transparent object
[NASA-CASE-GSC-11989-1] c74 N77-28932
IMAGE CONVERTERS
Real time liquid crystal image converter
[NASA-CASE-LAR-11206-1] c74 N74-30118
Deep trap, laser activated image converting system
[NASA-CASE-NPO-13131-1] c36 N75-19652
Resistive anode image converter
[NASA-CASE-HQN-10876-1] c33 N76-27473
IMAGE CORRELATORS
Multiple pattern holographic information storage and readout system
[NASA-CASE-ERC-10151] c16 N71-29131
Automatic focus control for facsimile cameras
[NASA-CASE-LAR-11213-1] c35 N75-15014
IMAGE DISSECTOR TUBES
Apparatus for calibrating an image dissector tube
[NASA-CASE-MFS-22208-1] c33 N75-26244
Electronic optical transfer function analyzer
[NASA-CASE-MFS-21672-1] c74 N76-19935
IMAGE ENHANCEMENT
Electron beam scanning system for improved image definition and reduced power requirements for video signal transmission
[NASA-CASE-ERC-10552] c09 N71-12539
Physical correction filter for improving the optical quality of an image
[NASA-CASE-HQN-10542-1] c74 N75-25706
Method of post-process intensification of images on photographic films and plates
[NASA-CASE-MFS-23461-1] c35 N76-26449
A miniature implantable ultrasonic echosonometer
[NASA-CASE-ARC-11035-1] c52 N77-15621
IMAGE FILTERS
Filter arrangement for controlling light intensity in motion picture camera used in optical pyrometry
[NASA-CASE-XLA-00062] c14 N70-33254
Physical correction filter for improving the optical quality of an image
[NASA-CASE-HQN-10542-1] c74 N75-25706
IMAGE INTENSIFIERS
Magnifying image intensifier
[NASA-CASE-GSC-12010-1] c33 N76-23482
Low intensity X-ray and gamma-ray imaging device
[NASA-CASE-GSC-12263-1] c35 N77-29471
IMAGE TUBES
Image tube --- deriving electron beam replica of image
[NASA-CASE-GSC-11602-1] c33 N74-21850
System for producing chroma signals
[NASA-CASE-MSC-14683-1] c74 N77-18893
IMAGERY
Surface roughness measuring system
[NASA-CASE-NPO-13862-1] c32 N77-17325
IMAGES
Camera adapter design for image magnification including lens and illuminator
[NASA-CASE-XNP-03844-1] c14 N71-26474
Stereoscopic television system, including projecting pair of binocular images
[NASA-CASE-ARC-10160-1] c23 N72-27728
IMAGING TECHNIQUES
Highly stable optical mirror assembly optimizing image quality of light diffraction patterns
[NASA-CASE-ERC-10001] c23 N71-24868
Noise elimination in coherent imaging system by axial rotation of optical lense for spectral distribution of degrading affects
[NASA-CASE-GSC-11133-1] c23 N72-11568
Phototransistor imaging system with mosaic of phototransistors on semiconductor substrate
[NASA-CASE-MFS-20809] c23 N73-13660
Computerized optical system for producing multiple images of a scene simultaneously
[NASA-CASE-MSC-12404-1] c23 N73-13661
Optical imaging system for increasing light absorption efficiency of imaging detector
[NASA-CASE-ARC-10194-1] c23 N73-20741
Device for displaying and recording angled views of samples to be viewed by microscope
[NASA-CASE-GSC-11690-1] c14 N73-28499
Ritchey-Chretien telescope responsive to images located off telescope optical axis
[NASA-CASE-GSC-11487-1] c14 N73-30393
Data storage, image tube type
[NASA-CASE-MSC-14053-1] c60 N74-12888
Optical instruments
[NASA-CASE-MSC-14096-1] c74 N74-15095
Field sequential stereo television
[NASA-CASE-MSC-12616-1] c32 N74-32601
Electron microscope aperture system
[NASA-CASE-ARC-10448-3] c35 N77-14408
Method and apparatus for producing an image from a transparent object
[NASA-CASE-GSC-11989-1] c74 N77-28932
Low intensity X-ray and gamma-ray imaging device
[NASA-CASE-GSC-12263-1] c35 N77-29471
IMIDES
Synthesis and chemical properties of imidazopyrrolone/imide copolymers
[NASA-CASE-XLA-08802] c06 N71-11238

Molding process for imidazopyrrolone polymers
[NASA-CASE-LAR-10547-1] c31 N74-13177
IMINES
Synthesis of polymeric schiff bases by schiff-base exchange reactions
[NASA-CASE-XMF-08651] c06 N71-11236
Direct synthesis of polymeric schiff bases from two amines and two aldehydes
[NASA-CASE-XMF-08655] c06 N71-11239
Synthesis of schiff bases for heat shields by acetal amine reactions
[NASA-CASE-XMF-08652] c06 N71-11243
Synthesis of aromatic diamines and dialdehyde polymers using Schiff base
[NASA-CASE-XMF-03074] c06 N71-24740
IMMOBILIZATION
Stretcher with rigid head and neck support with capability of supporting immobilized person in vertical position for removal from vehicle hatch to exterior also useful as splint stretcher
[NASA-CASE-XMF-06589] c05 N71-23159
Absolute focus locking device for microscopes to maintain set focus for extended time period
[NASA-CASE-LAR-10184] c14 N72-22445
IMPACT
Shock absorber for use as protective barrier in impact energy absorbing system
[NASA-CASE-NPO-10671] c15 N72-20443
System for detecting impact position of cosmic dust on detector surface
[NASA-CASE-GSC-11291-1] c25 N72-33696
Impact position detector for outer space particles
[NASA-CASE-GSC-11829-1] c35 N75-27331
IMPACT ACCELERATION
Suspended mass oscillation damper based on impact energy absorption for damping wind induced oscillations of tall stacks, antennas, and umbilical towers
[NASA-CASE-LAR-10193-1] c15 N71-27146
IMPACT DAMAGE
Measuring micrometeroid depth of penetration into various materials
[NASA-CASE-XLA-00941] c14 N71-23240
IMPACT LOADS
Piezoelectric transducer for detecting and measuring micrometeorids
[NASA-CASE-XAC-01101] c14 N70-41957
Impact testing machine for imparting large impact forces on high velocity packages
[NASA-CASE-XNP-04817] c14 N71-23225
IMPACT RESISTANCE
Electric storage battery with high impact resistance
[NASA-CASE-NPO-11021] c03 N72-20032
Hybrid composite laminate structures
[NASA-CASE-LEW-12118-1] c24 N77-27188
IMPACT STRENGTH
High impact pressure regulator having minimum number of lightweight movable elements
[NASA-CASE-NPO-10175] c14 N71-18625
IMPACT TESTING MACHINES
Development and characteristics of pentrometer for measuring physical properties of lunar surface
[NASA-CASE-XLA-00934] c14 N71-22765
Impact testing machine for imparting large impact forces on high velocity packages
[NASA-CASE-XNP-04817] c14 N71-23225
IMPACT TOLERANCES
High impact antennas with high radiating efficiency
[NASA-CASE-NPO-10231] c07 N71-26101
IMPEDANCE MATCHING
Impedance transformation device for signal mixing
[NASA-CASE-XGS-01110] c07 N69-24334
Reflectometer for receiver input impedance match measurement
[NASA-CASE-XNP-10843] c07 N71-11267
Radio frequency coaxial filter to provide dc isolation and low frequency signal rejection in audio range
[NASA-CASE-XGS-01418] c09 N71-23573
Pattern and impedance matching improvements in transversely polarized triaxial antenna
[NASA-CASE-XGS-02290] c07 N71-28809
IMPEDANCE MEASUREMENTS
Development of electrical system for measuring high impedance
[NASA-CASE-XMS-08589-1] c09 N71-20569
IMPLANTATION
Biotelemetry apparatus with dual voltage generators for implanting in animals
[NASA-CASE-XAC-05706] c05 N71-12342
Magnetic electrical connectors for biomedical percutaneous implants
[NASA-CASE-KSC-11030-1] c52 N77-25772
IMPLOSIONS
Implosion driven, light gas, hypervelocity gun
[NASA-CASE-XAC-05902] c11 N71-18578
IMPROVEMENT
Improved solar heating system
[NASA-CASE-LAR-12009-1] c44 N76-32649
IMPULSE GENERATORS
Percutaneous connector device
[NASA-CASE-KSC-10849-1] c52 N77-14738
IMPURITIES
Fabrication of sintered impurity semiconductor brushes for electrical energy transfer
[NASA-CASE-XMF-01016] c26 N71-17818
INCIDENT RADIATION
Frequency scanning particle size spectrometer
[NASA-CASE-NPO-13606-1] c35 N75-19627
Solar cell assembly --- for use under high intensity illumination
[NASA-CASE-LEW-11549-1] c44 N77-19571
INCLINATION
Hingeless helicopter rotor with improved stability
[NASA-CASE-ARC-10807-1] c05 N77-17029
INCOHERENT SCATTERING
Rapidly pulsed, high intensity, incoherent light source
[NASA-CASE-XLE-2529-3] c33 N74-20859
INDICATING INSTRUMENTS
Piezoelectric means for missile stage separation indication and stage initiation
[NASA-CASE-XLA-00791] c03 N70-39930
Inductive liquid level detection system
[NASA-CASE-XLE-01609] c14 N71-10500
Apparatus for determining quality of bond between high density material and low density material
[NASA-CASE-MFS-13686] c15 N71-18132
Device for detecting hydrogen fires onboard high altitude rockets
[NASA-CASE-MFS-13130] c10 N72-17173
INDIUM ALLOYS
Solar cell collector and method for producing same --- indium alloy coatings
[NASA-CASE-LEW-12552-1] c44 N77-17564
Method for attaching a fused-quartz mirror to a conductive metal substrate
[NASA-CASE-MFS-23405-1] c26 N77-29260
INDUCTANCE
Current dependent variable inductance for input filter chokes of ac or dc power supplies
[NASA-CASE-ERC-10139] c09 N72-17154
Inductance device with vacuum insulation and materials of low gas entrapping capability
[NASA-CASE-LEW-10330-1] c09 N72-27226
Direct reading inductance meter
[NASA-CASE-NPO-13792-1] c35 N77-32455
INDUCTION HEATING
Induction heating of metallurgical specimens to high temperatures in coil furnace
[NASA-CASE-XLE-04026] c14 N71-23267
INDUCTION MOTORS
Voltage controlled oscillator circuit for two-phase induction motor control
[NASA-CASE-MFS-21465-1] c10 N73-32145
Variable frequency inverter for ac induction motors with torque, speed and braking control
[NASA-CASE-MFS-22088-1] c33 N75-15874
Power factor control system for ac induction motors
[NASA-CASE-MFS-23280-1] c33 N76-28471
INDUCTORS
Inductive liquid level detection system
[NASA-CASE-XLE-01609] c14 N71-10500
Describing apparatus used in vacuum deposition of thin film inductive windings for spacecraft microcircuitry
[NASA-CASE-XNP-01667] c15 N71-17647
Double-induction variable speed system for constant-frequency electrical power generation
[NASA-CASE-ERC-10065] c09 N71-27364
INDUSTRIAL PLANTS
Simplified technique and device for producing

industrial grade synthetic diamonds
[NASA-CASE-MFS-20698-2] c15 N73-19457
INDUSTRIAL WASTES
Process for purification of waste water produced by a Kraft process pulp and paper mill
[NASA-CASE-NPO-13847-2] c85 N77-17949
INERTIA
Gearing system for eliminating backlash and filtering input torque fluctuations from high inertia load
[NASA-CASE-XGS-04227] c15 N71-21744
INERTIAL GUIDANCE
Hermetically sealed vibration damper design for use in gimbal assembly of spacecraft inertial guidance system
[NASA-CASE-MSC-10959] c15 N71-26243
INERTIAL PLATFORMS
Inertial component clamping assembly design for spacecraft guidance and control system mounting
[NASA-CASE-XMS-02184] c15 N71-20813
Inertial gimbal alignment system for spacecraft guidance
[NASA-CASE-XMF-01669] c21 N71-23289
Temperature compensated digital inertial sensor --- circuit for maintaining inertial element of gyroscope or accelerometer at constant position
[NASA-CASE-NPO-13044-1] c35 N74-15094
Attitude control system
[NASA-CASE-MFS-22787-1] c15 N77-10113
INERTIAL REFERENCE SYSTEMS
Development of attitude control system for spacecraft orientation
[NASA-CASE-XGS-04393] c21 N71-14159
Large amplitude, linear inertial reference system of vibrating string type for spacecraft reference plane
[NASA-CASE-XAC-03107] c23 N71-16098
INFECTIOUS DISEASES
Detection of microbial infection in blood and antibiotic determinations
[NASA-CASE-GSC-12045-1] c52 N77-18733
INFLATABLE SPACECRAFT
Passive thermal control coating on aluminum foil laminate for inflatable spacecraft surfaces
[NASA-CASE-XLA-01291] c33 N70-36617
Erectable, inflatable, radio signal reflecting passive communication satellite
[NASA-CASE-XLA-00210] c30 N70-40309
Rotating, multisided mandrel for fabricating gored inflatable spacecraft
[NASA-CASE-XLA-04143] c15 N71-17687
Forming inflatable panels erectable in space for passive communication satellite
[NASA-CASE-XLA-03497] c15 N71-23052
Development and characteristics of inflatable structure to provide escape from orbit for spacecrews under emergency conditions
[NASA-CASE-XMS-06162] c31 N71-28851
INFLATABLE STRUCTURES
Aeroflexible wing structure with air scoop for inflating stiffeners with ram air
[NASA-CASE-XLA-06095] c01 N69-39981
Lightweight life preserver without fastening devices
[NASA-CASE-XMS-00864] c05 N70-36493
Inflatable honeycomb panel element for lightweight structures usable in space stations and other construction
[NASA-CASE-XLA-00204] c32 N70-36536
Inflatable radar reflector unit - lightweight, highly reflective to electromagnetic radiation, and adaptable for erection and deployment with minimum effort and time
[NASA-CASE-XMS-00893] c07 N70-40063
Temperature sensor warning system for pneumatic tires of aircraft and ground vehicles
[NASA-CASE-XLA-01926] c14 N71-15620
Inflation system for balloon type satellites
[NASA-CASE-XGS-03351] c31 N71-16081
Development and characteristics of protective coatings for spacecraft
[NASA-CASE-XNP-02507] c31 N71-17679
Development and characteristics of self supporting space vehicle
[NASA-CASE-XLA-00117] c31 N71-17680
Conforming polisher for aspheric surfaces of revolution with inflatable tube
[NASA-CASE-XGS-02884] c15 N71-22705
Technique for making foldable, inflatable, plastic honeycomb core panels for use in building and bridge structures, light and radio wave reflectors, and spacecraft
[NASA-CASE-XLA-03492] c15 N71-22713
Collapsible antenna boom and coaxial transmission line having inflatable inner tube
[NASA-CASE-MFS-20068] c07 N71-27191
Space expandable tether device for use as passageway between two docked spacecraft
[NASA-CASE-XMS-10993] c15 N71-28936
Inflatable rocket engine nozzle skirt with transpiration cooling
[NASA-CASE-MFS-20619] c28 N72-11708
Modification of one man life raft
[NASA-CASE-LAR-10241-1] c54 N74-14845
INFORMATION RETRIEVAL
Multiple pattern holographic information storage and readout system
[NASA-CASE-EEC-10151] c16 N71-29131
INFRARED DETECTORS
Temperature sensitive capacitor device for detecting very low intensity infrared radiation
[NASA-CASE-XNP-09750] c14 N69-39937
Sight switch using infrared source and sensor mounted beside eye
[NASA-CASE-XMF-03934] c09 N71-22985
Characteristics of infrared photodetectors manufactured from semiconductor material irradiated by electron beam
[NASA-CASE-LAR-10728-1] c14 N73-12445
Doped Josephson tunneling junction for use in a sensitive IR detector
[NASA-CASE-NPO-13348-1] c33 N75-31332
INFRARED INSTRUMENTS
Infrared scanning system for maintaining spacecraft orientation with earth reference
[NASA-CASE-XLA-00120] c21 N70-33181
INFRARED LASERS
Monitoring atmospheric pollutants with a heterodyne radiometer transmitter-receiver
[NASA-CASE-NPO-11919-1] c35 N74-11284
Gregorian all-reflective optical system
[NASA-CASE-GSC-12058-1] c74 N77-26942
INFRARED RADIATION
High speed infrared furnace
[NASA-CASE-XLE-10466] c17 N69-25147
High field CdS detector for infrared radiation
[NASA-CASE-LAR-11027-1] c35 N74-18088
INFRARED SCANNERS
Infrared scanning system for maintaining spacecraft orientation with earth reference
[NASA-CASE-XLA-00120] c21 N70-33181
Method and equipment for locating earth infrared horizon from space, independent of season and latitude
[NASA-CASE-LAR-10726-1] c14 N73-20475
INFRARED SPECTRA
Diatomic infrared gasdynamic laser --- for producing different wavelengths
[NASA-CASE-ARC-10370-1] c36 N75-31426
INFRARED SPECTROMETERS
Telespectrograph for analyzing upper atmosphere by tracking bodies reentering atmosphere at high velocities
[NASA-CASE-XLA-03273] c14 N71-18699
INFRARED SPECTROSCOPY
Polymer coatings for moisture protection of optical windows in infrared spectroscopy
[NASA-CASE-ARC-10749-1] c23 N73-32542
Method and apparatus for providing a servo drive signal in a high-speed stepping interferometer
[NASA-CASE-NPO-13569-2] c33 N77-28395
INFRASONIC FREQUENCIES
Resonant infrasonic gauging device for measuring liquid quantity in closed bladderless reservoir
[NASA-CASE-MSC-11847-1] c14 N72-11363
INITIATORS (EXPLOSIVES)
Piezoelectric means for missile stage separation indication and stage initiation
[NASA-CASE-XLA-00791] c03 N70-39930
Electroexplosive safe-arm initiator using electric driven electromagnetic coils and magnets to align charge
[NASA-CASE-LAR-10372] c09 N71-18599

Electroexplosive device
[NASA-CASE-NPO-13858-1] c28 N77-17258
INJECTION
Foam insulation thickness measuring and injection device for spacecraft applications
[NASA-CASE-MFS-20261] c14 N71-27005
INJECTORS
Propellant injectors for rocket combustion chambers
[NASA-CASE-XLE-00103] c28 N70-33241
Fuel injection system for maximum combustion efficiency of rocket engines
[NASA-CASE-XLE-00111] c28 N70-38199
Injector manifold assembly for bipropellant rocket engines providing for fuel propellant to serve as coolant
[NASA-CASE-XMF-00148] c28 N70-38710
Method and apparatus for use in forming highly collimated beam of microparticles with high charge to mass ratio and injecting beam into electrostatic accelerating tube
[NASA-CASE-XGS-06628] c24 N71-16213
Control valve and coaxial variable injector for controlling bipropellant mixture ratio and flow
[NASA-CASE-XNP-09702] c15 N71-17654
Rocket engine injector orifice to accommodate changes in density, velocity, and pressure, thereby maintaining constant mass flow rate of propellant into rocket combustion chamber
[NASA-CASE-XLE-03157] c28 N71-24736
Bipropellant injector with pair of concave deflector plates
[NASA-CASE-XNP-09461] c28 N72-23809
Coaxial injector for mixing liquid propellants within combustion chambers
[NASA-CASE-NPO-11095] c15 N72-25455
Improved injector with porous plug for bubbles of gas into feed lines of electrically conductive liquid
[NASA-CASE-NPO-11377] c15 N73-27406
Splash groove fuel injector
[NASA-CASE-LEW-12417-1] c07 N76-22198
INLET FLOW
High pressure four-way valve with O ring adapted to pass across inlet port
[NASA-CASE-XNP-00214] c15 N70-36908
Method for maintaining good performance in gas turbine during air flow distortion
[NASA-CASE-LEW-10286-1] c28 N71-28915
Airflow control system for supersonic inlets
[NASA-CASE-LEW-11188-1] c02 N74-20646
Variably positioned guide vanes for aerodynamic choking
[NASA-CASE-LAR-10642-1] c07 N74-31270
Shock position sensor for supersonic inlets --- measuring pressure in the throat of a supersonic inlet
[NASA-CASE-LEW-11915-1] c35 N76-14431
Method for fabricating a mass spectrometer inlet leak
[NASA-CASE-GSC-12077-1] c35 N77-24455
INLET PRESSURE
Fluid jet amplifier with fluid from jet nozzle deflected by inlet pressure
[NASA-CASE-XLE-03512] c12 N69-21466
Shock position sensor for supersonic inlets --- measuring pressure in the throat of a supersonic inlet
[NASA-CASE-LEW-11915-1] c35 N76-14431
INOCULATION
Automatic inoculating apparatus --- includes movable carraige, drive motor, and swabbing motor
[NASA-CASE-LAR-11074-1] c51 N75-13502
INORGANIC COATINGS
Composition of diffuse reflective coating containing sodium chloride in combination with diol solvent and organic wetting and drying agents
[NASA-CASE-GSC-11214-1] c06 N73-13128
Inorganic-organic battery separator for alkaline batteries
[NASA-CASE-LEW-12649-1] c44 N76-31674
Boron trifluoride coatings for thermoplastic materials
[NASA-CASE-ARC-11057-1] c27 N77-26308
INORGANIC COMPOUNDS
Inorganic ion exchange membrane electrolytes for fuel cell use
[NASA-CASE-XNP-04264] c03 N69-21337
Preparation of inorganic solid film lubricants with long wear life and stability in aerospace environments
[NASA-CASE-XMF-03988] c15 N71-21403
Modification of polyurethanes with alkyl halide resins, inorganic salts, and encapsulated volatile and reactive halogen for fuel fire control
[NASA-CASE-ARC-10098-1] c06 N71-24739
Inorganic thermal control and solar reflector coatings
[NASA-CASE-MFS-20011] c18 N72-22566
Process for preparing higher oxides of the alkali and alkaline earth metals --- using radio frequency discharge sustained in oxygen
[NASA-CASE-ARC-10992-1] c25 N77-17178
INORGANIC PEROXIDES
Process for the preparation of calcium superoxide
[NASA-CASE-ARC-11053-1] c25 N77-29252
INPUT
Apparatus for filtering input signals
[NASA-CASE-NPO-10198] c09 N71-24806
RC networks with voltage amplifier, RC input circuit, and positive feedback
[NASA-CASE-ARC-10020] c10 N72-17172
INPUT/OUTPUT ROUTINES
Analog to digital converter
[NASA-CASE-NPO-13385-1] c33 N76-18345
INSERTION LOSS
High impedance alternating current sensing transformer device between two bolometers for measuring insertion loss of test component
[NASA-CASE-XNP-01193] c10 N71-16057
INSTALLING
Device for installing rocket engines
[NASA-CASE-MFS-19220-1] c20 N76-22296
Thermocouple installation
[NASA-CASE-NPO-13540-1] c35 N77-14409
INSTRUMENT ERRORS
Solar radiation direction detector and device for compensating degradation of photocells
[NASA-CASE-XLA-00183] c14 N70-40239
INSTRUMENT FLIGHT RULES
Controlled visibility device for simulating poor visibility conditions in training pilots in instrument landing and flight procedures
[NASA-CASE-XFR-04147] c11 N71-10748
INSTRUMENT ORIENTATION
Sensor consisting of photocells mounted on pyramidical base for improved pointing accuracy of planetary trackers
[NASA-CASE-XNP-04180] c07 N69-39736
Inertial gimbal alignment system for spacecraft guidance
[NASA-CASE-XMF-01669] c21 N71-23289
Optical gauging system for monitoring machine tool alignment
[NASA-CASE-XAC-09489-1] c15 N71-26673
Development of solar energy powered heliotrope assembly to orient solar array toward sun
[NASA-CASE-GSC-10945-1] c21 N72-31637
INSTRUMENT PACKAGES
Apparatus for ejecting covers of instrument packages using differential pressure principle
[NASA-CASE-XMF-04132] c15 N69-27502
Removable potting compound for instrument shock protection
[NASA-CASE-XLA-00482] c15 N70-36409
Plastic foam generator for space vehicle instrument payload package flotation in water landing
[NASA-CASE-XLA-00838] c03 N70-36778
High velocity guidance and spin stabilization gyro controlled jet reaction system for launch vehicle payloads
[NASA-CASE-XLA-01339] c31 N71-15692
Ethylene oxide sterilization and encapsulating process for sterile preservation of instruments and solid propellants
[NASA-CASE-XNP-09763] c14 N71-20461
INSTRUMENTS
Method and apparatus for bowing of instrument panels to improve radio frequency shielded enclosure
[NASA-CASE-XMF-09422] c07 N71-19436
Design and development of pressure sensor for measuring differential pressures of few pounds per square inch

[NASA-CASE-XMF-01974] c14 N71-22752
Development of temperature compensated thrust measuring gage for measuring forces as function of time in environment with varying temperature
[NASA-CASE-XGS-02319] c14 N71-22965
Development and characteristics of self-calibrating displacement transducer for measuring magnitude and frequency of displacement of bodies
[NASA-CASE-XLA-00781] c09 N71-22999
Design, development, and characteristics of pressure and temperature sensor operating immersed in fluid flow
[NASA-CASE-LEW-10281-1] c14 N72-17327
Development of apparatus for mounting scientific experiments in spacecraft to permit utilization without maneuvering spacecraft
[NASA-CASE-MSC-12372-1] c31 N72-25842

INSULATED STRUCTURES
Low thermal loss piping arrangement for moving cryogenic media through double chamber structure
[NASA-CASE-XNP-08882] c15 N69-39935

INSULATION
Electrode attached to helmets for detecting low level signals from skin of living creatures
[NASA-CASE-ARC-10043-1] c05 N71-11193
Characteristics of foamed-in-place ceramic refractory insulating material and method of fabrication
[NASA-CASE-XGS-02435] c18 N71-22998
Method of fabricating equal length insulated wire
[NASA-CASE-FRC-10038] c15 N72-20444
Inductance device with vacuum insulation and materials of low gas entrapping capability
[NASA-CASE-LEW-10330-1] c09 N72-27226
Insulated electrocardiographic electrodes --- without paste electrolyte
[NASA-CASE-MSC-14339-1] c05 N75-24716
Silica reusable surface insulation
[NASA-CASE-ARC-10721-1] c27 N76-22376
Two-component ceramic coating for silica insulation
[NASA-CASE-MSC-14270-1] c27 N76-22377
Three-component ceramic coating for silica insulation
[NASA-CASE-MSC-14270-2] c27 N76-23426

INSULATORS
High voltage insulators for direct current in acceleration system of electrostatic thrustor
[NASA-CASE-XLE-01902] c28 N71-10574
High temperature resistant cermet and ceramic compositions --- for use in thermionic converters or diodes
[NASA-CASE-NPO-13690-1] c27 N76-13294

INTAKE SYSTEMS
Deflector for preventing objects from entering nacelle inlets of jet aircraft
[NASA-CASE-XLE-00388] c28 N70-34788
The engine air intake system
[NASA-CASE-ARC-10761-1] c07 N77-18154
Fluid sampling device
[NASA-CASE-GSC-12143-1] c35 N77-32456

INTEGRATED CIRCUITS
Computer circuit performing both counting and shifting logic operations also capable of miniaturization and integration in basic circuits
[NASA-CASE-XNP-01753] c08 N71-22897
Development and characteristics of electric circuitry for detecting electrical pulses rise time and amplitude
[NASA-CASE-XMF-08804] c09 N71-24717
Method and apparatus for testing integrated circuit microtab welds
[NASA-CASE-ARC-10176-1] c15 N72-21464
Single integrated circuit chip with field effect transistor
[NASA-CASE-GSC-10835-1] c09 N72-33205
Integrated circuit tangnet function generator
[NASA-CASE-MSC-13907-1] c10 N73-26230
Inverted geometry transistor for use with monolithic integrated circuit
[NASA-CASE-ARC-10330-1] c09 N73-32112
Integrated circuit package with lead structure and method of preparing the same
[NASA-CASE-MFS-21374-1] c33 N74-12951
Integrated P-channel MOS gyrator
[NASA-CASE-MFS-22343-1] c33 N74-34638
Four phase logic systems --- including integrated microcircuits
[NASA-CASE-MSC-14240-1] c33 N75-10957
Integrable power gyrator --- with Z-matrix design using parallel transistors
[NASA-CASE-MFS-22342-1] c33 N75-30428

INTEGRATORS
Solid state operational integrator
[NASA-CASE-NPO-10230] c09 N71-12520
Variable duration pulse integrator design for integrating pulse duration modulated pulses with elimination of ripple content
[NASA-CASE-XLA-01219] c10 N71-23084
Solid state integrator for converting variable width pulses into analog voltage
[NASA-CASE-XLA-03356] c10 N71-23315
Feedback integrating circuit with grounded capacitor for signal processing
[NASA-CASE-XAC-10607] c10 N71-23669
High speed phase detector design indicating phase relationship between two square wave input signals
[NASA-CASE-XNP-01306-2] c09 N71-24596

INTERFEROMETERS
Describing device for velocity control of electromechanical drive mechanism of scanning mirror of interferometer
[NASA-CASE-XGS-03532] c14 N71-17627
Incremental motion drive system applied to interferometer components
[NASA-CASE-XNP-08897] c15 N71-17694
Design and development of optical interferometer with laser light source for application to schlieren systems
[NASA-CASE-XLA-04295] c16 N71-24170
Digital sensor for counting fringes produced by interferometers with improved sensitivity and one photomultiplier tube to eliminate alignment problem
[NASA-CASE-LAR-10204] c14 N71-27215
Two beam interferometer-polarimeter
[NASA-CASE-NPO-11239] c14 N73-12446
Interferometer prism and control system for precisely determining direction to remote light source
[NASA-CASE-ARC-10278-1] c14 N73-25463
Method and apparatus for providing a servodrive signal in a high speed stepping interferometer
[NASA-CASE-NPO-13569-1] c35 N75-21600
High resolution Fourier interferometer-spectrophotopolarimeter
[NASA-CASE-NPO-13604-1] c35 N76-31490
Method and apparatus for providing a servo drive signal in a high-speed stepping interferometer
[NASA-CASE-NPO-13569-2] c33 N77-28395

INTERMEDIATE FREQUENCY AMPLIFIERS
Multichannel logarithmic RF level detector
[NASA-CASE-LAR-11021-1] c32 N76-14321

INTERMETALLICS
Controlled diffusion reaction process for masking substrate of twisted multifilament superconductive ribbon
[NASA-CASE-LEW-11726-1] c26 N73-26752
Production of intermetallic compounds by effect of shock waves from explosions and compaction of powder
[NASA-CASE-MFS-20861-1] c18 N73-32437

INTERNAL COMBUSTION ENGINES
Variable displacement fuel pump for internal combustion engines
[NASA-CASE-MSC-12139-1] c28 N71-14058
Detonation reaction engine comprising outer housing enclosing pair of inner walls for continuous flow
[NASA-CASE-XNP-06926] c28 N71-22983
Development of system for preheating vaporized fuel for use with internal combustion engines
[NASA-CASE-NPO-12072] c28 N72-22772
System for minimizing internal combustion engine pollution emission
[NASA-CASE-NPO-13402-1] c37 N76-18457
Hydrogen-fueled engine
[NASA-CASE-NPO-13763-1] c37 N77-11398
Internal combustion engine with electrostatic discharging fuels
[NASA-CASE-NPO-13798-1] c37 N77-25535
Combustion engine --- for air pollution control
[NASA-CASE-NPO-13671-1] c37 N77-31497

Indicated mean effective pressure instrument (IMEP)
[NASA-CASE-LEW-12661-1] c35 N77-32461
INTERPLANETARY SPACE
Compact heat shielding for interplanetary space vehicles
[NASA-CASE-XMS-00486] c33 N70-33344
Active RC filter networks and amplifiers for deep space magnetic field measurement
[NASA-CASE-XAC-05462-2] c10 N72-17171
INTERPLANETARY SPACECRAFT
Transpirationally cooled heat ablation system for interplanetary spacecraft reentry shielding
[NASA-CASE-XMS-02677] c31 N70-42075
INTERPLANETARY TRAJECTORIES
Table structure and rotating magnet system simulating gravitational forces on spacecraft and displaying trajectories between Earth, Venus, and Mercury
[NASA-CASE-XNP-00708] c14 N70-35394
INTRACRANIAL PRESSURE
Induction powered biological radiosonde --- for measuring intracranial pressure
[NASA-CASE-ARC-11120-1] c52 N77-23743
INTRAOCULAR PRESSURE
Intra-ocular pressure normalization apparatus
[NASA-CASE-LEW-12955-1] c52 N77-30736
Intra-ocular pressure normalization technique and equipment
[NASA-CASE-LEW-12723-1] c52 N77-30737
INTRAVEHICULAR ACTIVITY
Intra- and extravehicular life support space suite for Apollo astronauts
[NASA-CASE-MSC-12609-1] c05 N73-32012
INTRUSION
Passive intrusion detection system
[NASA-CASE-NPO-13804-1] c35 N77-19390
INVENTIONS
Optical scanner
[NASA-CASE-LAR-11711-1] c74 N76-23985
INVERTED CONVERTERS (DC TO AC)
Inverter ratio failure detector
[NASA-CASE-NPO-13160-1] c35 N74-18090
Variable frequency inverter for ac induction motors with torque, speed and braking control
[NASA-CASE-MFS-22088-1] c33 N75-15874
INVERTERS
Silicon controlled rectifier inverter with compensation of transients to avoid false gating
[NASA-CASE-XLA-08507] c09 N69-39984
Inverter oscillator with voltage feedback
[NASA-CASE-NPO-10760] c09 N72-25254
IODINE
Method of producing output voltage from photovoltaic cell using poly-N-vinyl carbazole complexed with iodine
[NASA-CASE-NPO-10373] c03 N71-18698
Gallium arsenide solar cell preparation by surface deposition of cuprous iodide on thin n-type polycrystalline layers and heating in iodine vapor
[NASA-CASE-XNP-01960] c09 N71-23027
Iodine generator for reclaimed water purification
[NASA-CASE-MSC-14632-1] c54 N75-25594
IODINE ISOTOPES
Apparatus for producing high purity I-123 from Xe-123 by bombarding tellurium target with cyclotron beam
[NASA-CASE-LEW-10518-2] c24 N72-28714
Production of I-123 for use as radiopharmaceutical for low radiation exposure
[NASA-CASE-LEW-10518-1] c24 N72-33681
Apparatus for producing high purity I-123 --- for thyroid measurement
[NASA-CASE-LEW-10518-3] c31 N74-10476
Method of producing I-123 --- by bombardment of cesium causing spallation
[NASA-CASE-LEW-11390-2] c25 N76-27383
Production of I-123
[NASA-CASE-LEW-11390-3] c25 N76-29379
ION ACCELERATORS
Helium outgassing process for fused glass coating on ion accelerator grid
[NASA-CASE-LEW-10278-1] c15 N71-28582
ION BEAMS
Ion beam deflector system for electronic thrust vector control for ion propulsion yaw, pitch, and roll forces
[NASA-CASE-LEW-10689-1] c28 N71-26173
Dispensing targets for ion beam particle generators
[NASA-CASE-NPO-13112-1] c73 N74-26767
Sputtering holes with ion beamlets
[NASA-CASE-LEW-11646-1] c20 N74-31269
Method of constructing dished ion thruster grids to provide hole array spacing compensation
[NASA-CASE-LEW-11876-1] c20 N76-21276
Ion beam thruster shield
[NASA-CASE-LEW-12082-1] c20 N77-10148
ION CHARGE
Quadrupole mass spectrometer using noise spectrum for ion separation and identification
[NASA-CASE-XNP-04231] c14 N73-32325
ION CONCENTRATION
Deposition of alloy films --- on irregulary shaped metal object
[NASA-CASE-LEW-11262-1] c27 N74-13270
ION CURRENTS
System for monitoring presence of neutrals in streams of ions - ion engine control
[NASA-CASE-XNP-02592] c24 N71-20518
ION CYCLOTRON RADIATION
Ion and electron detector for use in an ICR spectrometer
[NASA-CASE-NPO-13479-1] c35 N77-10492
ION DENSITY (CONCENTRATION)
Method and apparatus for measurement of trap density and energy distribution in dielectric films
[NASA-CASE-NPO-13443-1] c76 N76-20994
ION ENGINES
Improved cathode containing barium carbonate block and heated tungsten screen for electron bombardment ion thrustor
[NASA-CASE-XLE-07087] c06 N69-39889
High-vacuum condenser tank for testing ion rocket engines
[NASA-CASE-XLE-00168] c11 N70-33278
Encapsulated heater forming hollow body for cathode used in ion thruster
[NASA-CASE-LEW-10814-1] c28 N70-35422
Electrostatic ion engines using high velocity electrons to ionize propellant
[NASA-CASE-XLE-00376] c28 N70-37245
Metal ion rocket engine design
[NASA-CASE-XLE-00342] c28 N70-37980
Dynamometer measuring microforce thrust produced by ion engine
[NASA-CASE-XLE-00702] c14 N70-40203
Increasing available power per unit area in ion rocket engine by increasing beam density
[NASA-CASE-XLE-00519] c28 N70-41576
Accel and focus electrode design for ion engine with improved efficiency
[NASA-CASE-XNP-02839] c28 N70-41922
Ion engine with magnetic circuit for optimal discharge
[NASA-CASE-XLE-01124] c28 N71-14043
Electron bombardment ion rocket engine with improved propellant introduction system
[NASA-CASE-XLE-02066] c28 N71-15661
System for monitoring presence of neutrals in streams of ions - ion engine control
[NASA-CASE-XNP-02592] c24 N71-20518
Construction and method of arranging plurality of ion engines to form cluster thereby increasing efficiency and control by decreasing heat radiated to space
[NASA-CASE-XNP-02923] c28 N71-23081
Electronic cathodes for use in electron bombardment ion thrustors
[NASA-CASE-XLE-04501] c09 N71-23190
Permanently magnetized ion engine casing construction for use in spacecraft propulsion systems
[NASA-CASE-XNP-06942] c28 N71-23293
Development and characteristics of ion thruster accelerator with single glass coated grid to provide increased ion extraction capability and larger diameter accelerator system
[NASA-CASE-LEW-10106-1] c28 N71-26642
Internal labyrinth and shield structure to improve electrical isolation of propellant feed source from ion thrustor
[NASA-CASE-LEW-10210-1] c28 N71-26781
Low mass ionizing device for use in electric thrust spacecraft engines
[NASA-CASE-XNP-01954] c28 N71-28850

Development of system for delivering vaporized mercury to electron bombardment ion engine [NASA-CASE-NPO-10737] c28 N72-11709
Characteristics of ion rocket engine with combination keeper electrode and electron baffle [NASA-CASE-NPO-11880] c28 N73-24783
Single grid accelerator system for electron bombardment type ion thrustor [NASA-CASE-XLE-10453-2] c28 N73-27699
Method of making dished ion thruster grids [NASA-CASE-LEW-11694-1] c20 N75-18310
Method of constructing dished ion thruster grids to provide hole array spacing compensation [NASA-CASE-LEW-11876-1] c20 N76-21276

ION EXCHANGE MEMBRANE ELECTROLYTES
Inorganic ion exchange membrane electrolytes for fuel cell use [NASA-CASE-XNP-04264] c03 N69-21337
Development and characteristics of ion-exchange membrane and electrode assembly for fuel cells or electrolysis cells [NASA-CASE-XMS-02063] c03 N71-29044
Formulated plastic separators for soluble electrode cells --- rubber-ion trasport sheeting [NASA-CASE-LEW-12358-1] c44 N77-18560
Dual membrane, hollow fiber fuel cell [NASA-CASE-NPO-13732-1] c44 N77-19581

ION EXCHANGING
Fuel system for thermal nuclear reactor which uses inorganic ion exchanger [NASA-CASE-LEW-11645-2] c22 N73-28660

ION EXTRACTION
Extraction and separation of a preferentially photo-dissociated molecular isotope into positive and negative ions by means of an electric field [NASA-CASE-LEW-12465-1] c72 N76-27967

ION IMPLANTATION
A complementary DMOS-VMOS integrated circuit structure [NASA-CASE-GSC-12190-1] c33 N77-29403

ION PROBES
Ion microprobe mass spectrometer with cooled electrode target for analyzing traces of fluids [NASA-CASE-ERC-10014] c14 N71-28863

ION PROPULSION
Variable thrust ion engine using thermal decomposition of solid cesium compound to produce propulsive vapor [NASA-CASE-XMF-00923] c28 N70-36802
Electrostatic ion engines using high velocity electrons to ionize propellant [NASA-CASE-XLE-00376] c28 N70-37245
Metal ion rocket engine design [NASA-CASE-XLE-00342] c28 N70-37980
Method for producing porous tungsten plates for ionizing cesium compounds for propulsion of ion engines [NASA-CASE-XLE-00455] c28 N70-38197
Accel and focus electrode design for ion engine with improved efficiency [NASA-CASE-XNP-02839] c28 N70-41922
Electric rocket engine with electron bombardment ionization chamber [NASA-CASE-XNP-04124] c28 N71-21822
Ion beam deflector system for electronic thrust vector control for ion propulsion yaw, pitch, and roll forces [NASA-CASE-LEW-10689-1] c28 N71-26173
Development and characteristics of ion thruster accelerator with single glass coated grid to provide increased ion extraction capability and larger diameter accelerator system [NASA-CASE-LEW-10106-1] c28 N71-26642
Development of system for delivering vaporized mercury to electron bombardment ion engine [NASA-CASE-NPO-10737] c28 N72-11709
Radial magnetic field for ion thruster [NASA-CASE-LEW-10770-1] c28 N72-22770
Automatic shunting of ion thrustor magnetic field when thrustor is not operating [NASA-CASE-LEW-10835-1] c28 N72-22771
Method of making dished ion thruster grids [NASA-CASE-LEW-11694-1] c20 N75-18310
Apparatus for forming dished ion thruster grids [NASA-CASE-LEW-11694-2] c37 N76-14461
Anode for ion thruster [NASA-CASE-LEW-12048-1] c20 N77-20162

ION PUMPS
Mass spectrometer with magnetic pole pieces providing the magnetic fields for both the magnetic sector and an ion-type vacuum pump [NASA-CASE-NPO-13663-1] c35 N77-14406

ION SOURCES
Apertured electrode focusing system for ion sources with nonuniform plasma density [NASA-CASE-XNP-03332] c09 N71-10618
Multilayer porous refractory metal ionizer design with thick, porous, large-grain substrates and thin, porous micron-grain substrates [NASA-CASE-XNP-04338] c17 N71-23046
Development and characteristics of ion thruster accelerator with single glass coated grid to provide increased ion extraction capability and larger diameter accelerator system [NASA-CASE-LEW-10106-1] c28 N71-26642
Low mass ionizing device for use in electric thrust spacecraft engines [NASA-CASE-XNP-01954] c28 N71-28850
Development and characteristics of apparatus for ionization analysis [NASA-CASE-ARC-10017-1] c14 N72-29464
Sputtering holes with ion beamlets [NASA-CASE-LEW-11646-1] c20 N74-31269
Multitarget sequential sputtering apparatus [NASA-CASE-NPO-13345-1] c37 N75-19684

ION TRAPS (INSTRUMENTATION)
Method and apparatus for measurement of trap density and energy distribution in dielectric films [NASA-CASE-NPO-13443-1] c76 N76-20994

IONIZATION CHAMBERS
Automatic baseline stabilization for ionization detector used in gas chromatograph [NASA-CASE-XNP-03128] c10 N70-41991
Electric rocket engine with electron bombardment ionization chamber [NASA-CASE-XNP-04124] c28 N71-21822
Multichannel photoionization chamber for measuring absorption, photoionization yield, and coefficients of gases [NASA-CASE-ERC-10044-1] c14 N71-27090
Development and characteristics of apparatus for ionization analysis [NASA-CASE-ARC-10017-1] c14 N72-29464

IONIZATION GAGES
Ionization vacuum gage [NASA-CASE-XNP-00646] c14 N70-35666
Ionization control system design for monitoring separately located ion gage pressures on vacuum chambers [NASA-CASE-XLE-00787] c14 N71-21090
Development and characteristics of apparatus for ionization analysis [NASA-CASE-ARC-10017-1] c14 N72-29464
Ionization gage for measuring ultrahigh vacuum levels [NASA-CASE-XLA-05087] c14 N73-30391

IONIZATION POTENTIALS
Electrodes having array of small surfaces for field ionization [NASA-CASE-ERC-10013] c09 N71-26678

IONIZED GASES
Plasma probes having guard ring and primary sensor at same potential to prevent stray wall current collection in ionized gases [NASA-CASE-XLE-00690] c25 N69-39884
Transient heat transfer gage for measuring total radiant intensity from far ultraviolet and ionized high temperature gases [NASA-CASE-XNP-09802] c33 N71-15641
Extraction and separation of a preferentially photo-dissociated molecular isotope into positive and negative ions by means of an electric field [NASA-CASE-LEW-12465-1] c72 N76-27967

IONIZERS
Description of electrical equipment and system for purification of waste water by producing silver ions for bacterial control [NASA-CASE-MSC-10960-1] c05 N71-24718
Method of making dished ion thruster grids [NASA-CASE-LEW-11694-1] c20 N75-18310

IONIZING RADIATION
High voltage cable for use in high intensity ionizing radiation fields

[NASA-CASE-XNP-00738] c09 N70-38201
Reinforced polyquinoxaline gasket and method of preparing the same --- resistant to ionizing radiation and liquid hydrogen temperatures
[NASA-CASE-MFS-21364-1] c37 N74-18126
IONOSPHERE
Lightweight, rugged, inexpensive satellite battery for producing electrical power from ionosphere using electrodes with different contact potentials
[NASA-CASE-XGS-01593] c03 N70-35408
IONS
Micrometeoroid analyzer using arrays of interconnected capacitors and ion detector
[NASA-CASE-ARC-10443-1] c14 N73-20477
IRISES (MECHANICAL APERTURES)
Waveguide, thin film window and microwave irises
[NASA-CASE-LAR-10513-1] c07 N72-25170
Development of thin film microwave iris installed in microwave waveguide transverse to flow of energy in waveguide
[NASA-CASE-LAR-10511-1] c09 N72-29172
IRON ALLOYS
Tantalum modified ferritic iron base alloys --- for use in high temperature environments
[NASA-CASE-LEW-12095-1] c26 N76-17233
IRRADIATION
Solar sensor with coarse and fine sensing elements for matching preirradiated cells on degradation rates
[NASA-CASE-XLA-01584] c14 N71-23269
Apparatus for obtaining isotropic irradiation on film emulsion from parallel radiation source
[NASA-CASE-MFS-20095] c24 N72-11595
Production of pure metals
[NASA-CASE-LEW-10906-1] c25 N74-30502
IRRIGATION
Solar-powered pump
[NASA-CASE-NPO-13567-1] c44 N76-29701
ISOLATORS
Internal labyrinth and shield structure to improve electrical isolation of propellant feed source from ion thrustor
[NASA-CASE-LEW-10210-1] c28 N71-26781
ISOPROPYL ALCOHOL
Preparation of fluorinated polyethers from 2-hydro-perhaloisopropyl alcohols
[NASA-CASE-MFS-11492] c06 N73-30102
ISOTHERMAL LAYERS
Double-wall isothermal cylinder containing heat transfer fluid thermal reservoir as spacecraft insulation cover
[NASA-CASE-MFS-20355] c33 N71-25353
ISOTHERMAL PROCESSES
General purpose rocket furnace
[NASA-CASE-MFS-23460-1] c09 N77-12070
Opto-mechanical subsystem with temperature compensation through isothermal design
[NASA-CASE-GSC-12059-1] c35 N77-27366
ISOTOPE SEPARATION
Isotope separation using metallic vapor lasers
[NASA-CASE-NPO-13550-1] c36 N77-26477

J

JET AIRCRAFT
Deflector for preventing objects from entering nacelle inlets of jet aircraft
[NASA-CASE-XLE-00388] c28 N70-34788
JET AIRCRAFT NOISE
Upper surface, external flow, jet-augmented flap configuration for high wing jet aircraft for noise reduction
[NASA-CASE-XLA-00087] c02 N70-33332
Jet aircraft exhaust nozzle for noise reduction
[NASA-CASE-LAR-10951-1] c28 N73-19819
Development of aircraft configuration for reduction of jet aircraft noise by exhausting engine gases over upper surface of wing
[NASA-CASE-LAR-11087-1] c02 N73-26008
Noise suppressor --- for turbofan engine by incorporating annular acoustically porous elements in exhaust and inlet ducts
[NASA-CASE-LAR-11141-1] c07 N74-32418
Abating exhaust noises in jet engines
[NASA-CASE-ARC-10712-1] c07 N74-33218
Instrumentation for measurement of aircraft noise and sonic boom
[NASA-CASE-LAR-11173-1] c35 N75-19614
Cascade plug nozzle --- for jet noise reduction
[NASA-CASE-LAR-11674-1] c07 N76-18117
Apparatus and method for jet noise suppression
[NASA-CASE-LAR-11903-1] c07 N77-15036
JET AMPLIFIERS
Fluid jet amplifier with fluid from jet nozzle deflected by inlet pressure
[NASA-CASE-XLE-03512] c12 N69-21466
Fluid control jet amplifiers
[NASA-CASE-XLE-09341] c12 N71-28741
JET BLAST EFFECTS
Separation mechanism for use between stages of multistage rocket vehicles
[NASA-CASE-XLA-00188] c15 N71-22874
JET CONTROL
Attitude control device for space vehicles
[NASA-CASE-XNP-00294] c21 N70-36938
JET ENGINES
Absorptive, nonreflecting barrier mounted between closely spaced jet engines on supersonic aircraft, for preventing shock wave interference
[NASA-CASE-XLA-02865] c28 N71-15563
Development of thrust dynamometer for measuring performance of jet and rocket engines
[NASA-CASE-XLE-05260] c14 N71-20429
Afterburner-equipped jet engine nacelle with slotted configuration afterbody
[NASA-CASE-XLA-10450] c28 N71-21493
Process for welding compressor and turbine blades to rotors and discs of jet engines
[NASA-CASE-LEW-10533-1] c15 N73-28515
Variably positioned guide vanes for aerodynamic choking
[NASA-CASE-LAR-10642-1] c07 N74-31270
Cascade plug nozzle --- for jet noise reduction
[NASA-CASE-LAR-11674-1] c07 N76-18117
Stator rotor tools
[NASA-CASE-MSC-16000-1] c07 N77-13062
The engine air intake system
[NASA-CASE-ARC-10761-1] c07 N77-18154
JET EXHAUST
Development of aircraft configuration for reduction of jet aircraft noise by exhausting engine gases over upper surface of wing
[NASA-CASE-LAR-11087-1] c02 N73-26008
Jet exhaust noise suppressor
[NASA-CASE-LEW-11286-1] c07 N74-27490
Reduction of nitric oxide emissions from a combustor
[NASA-CASE-ARC-10814-2] c25 N77-31260
JET FLAPS
Upper surface, external flow, jet-augmented flap configuration for high wing jet aircraft for noise reduction
[NASA-CASE-XLA-00087] c02 N70-33332
JET FLOW
Two-phase flow system with discrete, impinging two-phase jets
[NASA-CASE-NPO-11556] c12 N72-25292
JET MIXING FLOW
Fuel injection system for maximum combustion efficiency of rocket engines
[NASA-CASE-XLE-00111] c28 N70-38199
JET NOZZLES
Fluid jet amplifier with fluid from jet nozzle deflected by inlet pressure
[NASA-CASE-XLE-03512] c12 N69-21466
Thrust and attitude control apparatus using jet nozzle in movable canard surface or fin configuration
[NASA-CASE-XLE-03583] c31 N71-17629
Heater-mixer for stored fluids
[NASA-CASE-ARC-10442-1] c35 N74-15093
JET THRUST
System for aerodynamic control of rocket vehicles by secondary injection of fluid into nozzle exhaust stream
[NASA-CASE-XLA-01163] c21 N71-15582
Drive mechanism for operating reactance attitude control system for aerospace bodies
[NASA-CASE-XNP-01598] c21 N71-15583
JETTISON SYSTEMS
Describing assembly for opening stabilizing and decelerating flaps of flight capsules used in space research
[NASA-CASE-XNP-03169] c31 N71-15675
System for deploying and ejecting releasable clamshell fairing sections from spinning

sounding rockets
[NASA-CASE-GSC-10590-1] c31 N73-14853
JIGS
Apparatus for positioning modular components on a vertical or overhead surface
[NASA-CASE-LAR-11465-1] c37 N76-21554
JOINTS (ANATOMY)
Space suit with pressure-volume compensator system
[NASA-CASE-XLA-05332] c05 N71-11194
Equipotential space suits utilizing mechanical aids to minimize astronaut energy at bending joints
[NASA-CASE-LAR-10007-1] c05 N71-11195
Cord restraint system for pressure suit joints
[NASA-CASE-XMS-09635] c05 N71-24623
Orthotic arm joint --- for use in mechanical arms
[NASA-CASE-MFS-21611-1] c54 N75-12616
Rotational joint assembly for the prosthetic leg
[NASA-CASE-KSC-11004-1] c54 N77-30749
JOINTS (JUNCTIONS)
Hollow spherical electrode for shielding dielectric junction between high voltage conductor and insulator
[NASA-CASE-XLE-03778] c09 N69-21542
Elastic universal joint for rocket motor mounting
[NASA-CASE-XNP-00416] c15 N70-36947
Portable device for aligning surfaces of two adjacent wall or sheet sections for joining at point of junction
[NASA-CASE-XNP-01452] c15 N70-41371
Design and development of flexible joint for pressure suits
[NASA-CASE-XMS-09636] c05 N71-12344
Elbow forming in jacketed pipes while maintaining separation between core shape and jacket pipes
[NASA-CASE-XNP-10475] c15 N71-24679
Method and apparatus for precision sizing and joining of large diameter tubes by bulging or constricting overlapping ends
[NASA-CASE-XNP-05114-2] c15 N71-26148
Universal joints for connecting two displaced shafts or members
[NASA-CASE-NPO-10646] c15 N71-28467
Flexible bellows joint shielding sleeve for propellant transfer pipelines
[NASA-CASE-XNP-01855] c15 N71-28937
Mechanism for restraining universal joints to prevent separation while allowing bending, angulation, and lateral offset in any position about axis
[NASA-CASE-XNP-02278] c15 N71-28951
Diffusion welding in air --- solid state welding of butt joint by fusion welding, surface cleaning, and heating
[NASA-CASE-LEW-11387-1] c37 N74-18128
Bonded joint and method --- for reducing peak shear stress in adhesive bonds
[NASA-CASE-LAR-10900-1] c37 N74-23064
Flexible joint for pressurizable garment
[NASA-CASE-MSC-11072] c54 N74-32546
Method of making an explosively welded scarf joint
[NASA-CASE-LAR-11211-1] c37 N75-12326
Method of determining bond quality of power transistors attached to substrates --- X ray inspection of junction microstructure
[NASA-CASE-MFS-21931-1] c37 N75-26372
Externally supported internally stabilized flexible duct joint
[NASA-CASE-MFS-19194-1] c37 N76-14460
Wrist joint assembly
[NASA-CASE-MFS-23311-1] c37 N76-28554
Spacesuit mobility joints
[NASA-CASE-ARC-11058-1] c54 N77-15641
JOSEPHSON JUNCTIONS
Doped Josephson tunneling junction for use in a sensitive IR detector
[NASA-CASE-NPO-13348-1] c33 N75-31332
JOULE-THOMSON EFFECT
Gas balancing, cryogenic refrigeration apparatus with Joule-Thomson valve assembly
[NASA-CASE-NPO-10309] c15 N69-23190
JOURNAL BEARINGS
Slit regulated gas journal bearing
[NASA-CASE-XNP-00476] c15 N70-38620
Journal air bearing with cylindrical cup designed to ride on shaft
[NASA-CASE-MFS-20423] c15 N72-11388
Journal bearings --- for lubricant films
[NASA-CASE-LEW-11076-1] c37 N74-21061
Journal Bearings
[NASA-CASE-LEW-11076-2] c37 N74-32921
Lubricated journal bearing
[NASA-CASE-LEW-11076-3] c37 N75-30562
Fluid journal bearings
[NASA-CASE-LEW-11076-4] c37 N76-15461
JUNCTION DIODES
Phototransistor with base collector junction diode for integration into photo sensor arrays
[NASA-CASE-MFS-20407] c09 N73-19235
Diode-quad bridge circuit means
[NASA-CASE-ARC-10364-2] c33 N75-25041
Charge storage diode modulators and demodulators
[NASA-CASE-NPO-10189-1] c33 N77-21314
JUNCTION TRANSISTORS
Apparatus for ballasting high frequency transistors
[NASA-CASE-XGS-05003] c09 N69-24318
Miniature piezojunction semiconductor transducer with in situ stress coupling
[NASA-CASE-ERC-10087-2] c14 N72-31446
Method of determining bond quality of power transistors attached to substrates --- X ray inspection of junction microstructure
[NASA-CASE-MFS-21931-1] c37 N75-26372

K

KIDNEY DISEASES
Aldehyde-containing urea-absorbing polysaccharides
[NASA-CASE-NPO-13620-1] c27 N77-30236
KINETIC ENERGY
Non-reusable kinetic energy absorber for application in soft landing of space vehicles
[NASA-CASE-XLE-00810] c15 N70-34861
KINETIC FRICTION
Kinetic and static friction force measurement between magnetic tape and magnetic head surfaces
[NASA-CASE-XNP-08680] c14 N71-22995
KINETICS
Micrometeoroid analyzer using arrays of interconnected capacitors and ion detector
[NASA-CASE-ARC-10443-1] c14 N73-20477

L

LABORATORY EQUIPMENT
Design of mechanical device for stirring several test tubes simultaneously
[NASA-CASE-XAC-06956] c15 N71-21177
Gas purged dry box glove reducing permeation of air or moisture into dry box or isolator by diffusion through glove
[NASA-CASE-XLE-02531] c05 N71-23080
Apparatus and process for volumetrically dispensing reagent quantities of volatile chemicals for small batch reactions
[NASA-CASE-NPO-10070] c15 N71-27372
Development of variable angle device for positioning test tubes to permit optimum drying of culture medium
[NASA-CASE-LAR-10507-1] c11 N72-25284
Development of method for controlling vapor content of gas
[NASA-CASE-NPO-10633] c03 N72-28025
Apparatus for mixing two or more liquids under zero gravity conditions
[NASA-CASE-LAR-10195-1] c15 N73-19458
Automatic real-time pair-feeding system for animals
[NASA-CASE-ARC-10302-1] c51 N74-15778
Automated single-slide staining device
[NASA-CASE-LAR-11649-1] c51 N77-27677
LAMINAR FLOW
Laminar flow of liquid coolants in rocket engines
[NASA-CASE-NPO-10122] c12 N71-17631
LAMINATES
Multilayer porous refractory metal ionizer design with thick, porous, large-grain substrates and thin, porous micron-grain substrates
[NASA-CASE-XNP-04338] c17 N71-23046
Development and characteristics of polyimide impregnated laminates with fiberglass cloth backing for application as printed circuit boards
[NASA-CASE-MFS-20408] c18 N73-12604

Development of composite structures for spacecraft to serve as anti-meteoroid device
[NASA-CASE-LAR-10788-1] c31 N73-20880
Reinforced polyquinoxaline gasket and method of preparing the same --- resistant to ionizing radiation and liquid hydrogen temperatures
[NASA-CASE-MFS-21364-1] c37 N74-18126
Method of laminating structural members
[NASA-CASE-XLA-11028-1] c24 N74-27035
Lightweight electrically powered flexible thermal laminate --- made of metal fibers
[NASA-CASE-MSC-12662-1] c24 N75-16635
Bonding method in the manufacture of continuous regression rate sensor devices
[NASA-CASE-LAR-10337-1] c24 N75-30260
Transparent fire resistant polymeric structures
[NASA-CASE-ARC-10813-1] c27 N76-16230
Honeycomb-laminate composite structure
[NASA-CASE-ARC-10913-1] c24 N76-26286
Leading edge protection for composite blades
[NASA-CASE-LEW-12550-1] c24 N77-19170
Low density bismaleimide-carbon microballoon composites
[NASA-CASE-ARC-11040-1] c24 N77-19173
Composite lamination method --- of resin impregnated fiber tape
[NASA-CASE-LAR-12019-1] c24 N77-22179
Hybrid composite laminate structures
[NASA-CASE-LEW-12118-1] c24 N77-27188

LANDING AIDS
Electro-optical attitude sensing device for landing approach of flight vehicle
[NASA-CASE-XMS-01994-1] c14 N72-17326
Magnetic method for detection of aircraft position relative to runway
[NASA-CASE-ARC-10179-1] c21 N72-22619

LANDING GEAR
Pivotal shock absorbing assembly for use as load distributing portion in landing gear systems of space vehicles
[NASA-CASE-XMF-03856] c31 N70-34159
Nose gear steering system for vehicles with main skids to provide directional stability after loss of aerodynamic control
[NASA-CASE-XLA-01804] c02 N70-34160
Landing pad assembly for aerospace vehicles
[NASA-CASE-XMF-02853] c31 N70-36654
Aircraft wheel spray drag alleviator for dual tandem landing gear
[NASA-CASE-XLA-01583] c02 N70-36825
Spacecraft shock absorbing system for soft landings
[NASA-CASE-XMF-02108] c31 N70-36845
Shock absorber for landing gear of lunar or planetary landing modules
[NASA-CASE-XMF-01045] c15 N70-40354
Vertically descending flight vehicle landing gear for rough terrain
[NASA-CASE-XMF-01174] c02 N70-41589
Crosswind landing gear position indicator
[NASA-CASE-LAR-11941-1] c06 N77-20098

LANDING MODULES
Shock absorber for landing gear of lunar or planetary landing modules
[NASA-CASE-XMF-01045] c15 N70-40354

LANDING SIMULATION
Lunar and planetary gravity simulator to test vehicular response to landing
[NASA-CASE-XLA-00493] c11 N70-34786

LANTHANUM COMPOUNDS
Cesium thermionic converters having lanthanum hexaboride electrodes
[NASA-CASE-LEW-12038-2] c44 N77-32595

LASER APPLICATIONS
High power laser apparatus and system
[NASA-CASE-XLE-2529-2] c36 N75-27364
Fiber distributed feedback laser
[NASA-CASE-NPO-13531-1] c36 N76-24553
Extraction and separation of a preferentially photo-dissociated molecular isotope into positive and negative ions by means of an electric field
[NASA-CASE-LEW-12465-1] c72 N76-27967
Laser extensometer
[NASA-CASE-MFS-19259-1] c36 N77-10516
Wind measurement system
[NASA-CASE-MFS-23362-1] c47 N77-10753
Volumetric direct nuclear pumped laser
[NASA-CASE-LAR-12183-1] c36 N77-21424
Pseudo-backscatter laser Doppler velocimeter employing antiparallel-reflector in the forward direction
[NASA-CASE-ARC-10970-1] c36 N77-25501
Compact pulsed laser having improved heat conductance
[NASA-CASE-NPO-13147-1] c36 N77-25502

LASER CAVITIES
Soft X-ray laser using crystal channels as distributed feedback cavities --- zeolites
[NASA-CASE-NPO-13532-1] c36 N75-15973

LASER DOPPLER VELOCIMETERS
Dual wavelength scanning Doppler velocimeter --- without perturbation of flow fields
[NASA-CASE-ARC-10637-1] c35 N75-16783
Combined dual scatter, local oscillator laser Doppler velocimeter
[NASA-CASE-ARC-10642-1] c36 N76-14447
Focused laser Doppler velocimeter
[NASA-CASE-MFS-23178-1] c35 N77-10493
Pseudo-backscatter laser Doppler velocimeter employing antiparallel-reflector in the forward direction
[NASA-CASE-ARC-10970-1] c36 N77-25501

LASER HEATING
Electric power generation system directory from laser power
[NASA-CASE-NPO-13308-1] c36 N75-30524

LASER MATERIALS
Laser head for simultaneous optical pumping of several dye lasers --- with single flash lamp
[NASA-CASE-LAR-11341-1] c36 N75-19655

LASER MODE LOCKING
Laser system with an antiresonant optical ring
[NASA-CASE-HQN-10844-1] c36 N75-19653
Dually mode locked Nd:YAG laser
[NASA-CASE-GSC-11746-1] c36 N75-19654
Length controlled stabilized mode-lock ND:YAG laser
[NASA-CASE-GSC-11571-1] c36 N77-25499

LASER MODES
Xenon flashlamp driver system for optical laser pumping
[NASA-CASE-ERC-10283] c16 N72-25485
Acoustically controlled distributed feedback laser
[NASA-CASE-NPO-13175-1] c36 N75-31427

LASER OUTPUTS
Method and apparatus using temperature control for wavelength tuning of liquid lasers
[NASA-CASE-ERC-10187] c16 N69-31343
Describing laser Doppler velicometer for measuring mean velocity and turbulence of fluid flow
[NASA-CASE-MFS-20386] c21 N71-19212
Development of apparatus for amplitude modulation of diode laser by periodic discharge of direct current power supply
[NASA-CASE-XMS-04269] c16 N71-22895
Doppler shifted laser beam as fluid velocity sensor
[NASA-CASE-XAC-10770-1] c16 N71-24828
Calibrator for measuring and modulating or demodulating laser outputs
[NASA-CASE-XLA-03410] c16 N71-25914
Method and apparatus for optically modulating light or microwave beam
[NASA-CASE-GSC-10216-1] c23 N71-26722
Laser machining device with dielectric functioning as beam waveguide for mechanical and medical applications
[NASA-CASE-HQN-10541-2] c15 N71-27135
Optical communication system with gas filled waveguide for laser beam transmission
[NASA-CASE-HQN-10541-4] c16 N71-27183
Design and development of multichannel laser remote control system using modulated helium-neon laser as transmitter and light collector as receiving antenna
[NASA-CASE-LAR-10311-1] c16 N73-16536
Performance of ac power supply developed for CO2 laser system
[NASA-CASE-GSC-11222-1] c16 N73-32391
Thermomagnetic recording and magneto-optic playback system having constant intensity laser beam control
[NASA-CASE-NPO-11317-2] c36 N74-13205
Apparatus for scanning the surface of a cylindrical body
[NASA-CASE-NPO-11861-1] c36 N74-20009

Optically detonated explosive device
[NASA-CASE-NPO-11743-1] c28 N74-27425
Clear air turbulence detector
[NASA-CASE-MFS-21244-1] c36 N75-15028
Dually mode locked Nd:YAG laser
[NASA-CASE-GSC-11746-1] c36 N75-19654
Laser head for simultaneous optical pumping of several dye lasers --- with single flash lamp
[NASA-CASE-LAR-11341-1] c36 N75-19655
Acoustically controlled distributed feedback laser
[NASA-CASE-NPO-13175-1] c36 N75-31427
Optical noise suppression device and method --- laser light exposing film
[NASA-CASE-MSC-12640-1] c74 N76-31998
Length controlled stabilized mode-lock ND:YAG laser
[NASA-CASE-GSC-11571-1] c36 N77-25499
Apparatus for photon excited catalysis
[NASA-CASE-NPO-13566-1] c25 N77-32255

LASER PLASMAS
Continuous plasma laser --- method and apparatus for producing intense, coherent, monochromatic light from low temperature plasma
[NASA-CASE-XNP-04167-3] c36 N77-19416

LASER RANGER/TRACKER
Laser beam projector for continuous, precise alignment between target, laser generator, and astronomical telescope during tracking
[NASA-CASE-NPO-11087] c23 N71-29125

LASERS
Laser device for removing material from rotating object for dynamic balancing
[NASA-CASE-MFS-11279] c16 N71-20400
Design and development of optical interferometer with laser light source for application to schlieren systems
[NASA-CASE-XLA-04295] c16 N71-24170
Self-generating optical frequency waveguide
[NASA-CASE-HQN-10541-1] c07 N71-26291
Design and characteristics of laser camera system with diffusion filter of small particles with average diameter larger than wavelength of laser light
[NASA-CASE-NPO-10417] c16 N71-33410
Optical sensing of supersonic flows by correlating deflections in laser beams through flow
[NASA-CASE-MFS-20642] c14 N72-21407
Laser technique for breaking ice in ship path
[NASA-CASE-LAR-10815-1] c16 N72-22520
Design of precision vertical alignment system using laser with gravitationally sensitive cavity
[NASA-CASE-ARC-10444-1] c16 N73-33397
Tunable cavity resonator with ramp shaped supports
[NASA-CASE-HQN-10790-1] c36 N74-11313
Short range laser obstacle detector --- for surface vehicles using laser diode array
[NASA-CASE-NPO-11856-1] c36 N74-15145
Long range laser traversing system
[NASA-CASE-GSC-11262-1] c36 N74-21091
Deep trap, laser activated image converting system
[NASA-CASE-NPO-13131-1] c36 N75-19652
Laser system with an antiresonant optical ring
[NASA-CASE-HQN-10844-1] c36 N75-19653
Acoustically controlled distributed feedback laser
[NASA-CASE-NPO-13175-1] c36 N75-31427
Method and apparatus for splitting a beam of energy
[NASA-CASE-GSC-12083-1] c36 N76-15451
Method and apparatus for generating coherent radiation in the ultra-violet region and above by use of distributed feedback
[NASA-CASE-NPO-13346-1] c36 N76-29575
Polarization compensator for optical communications
[NASA-CASE-GSC-11782-1] c74 N76-30053
Double discharge metal vapor laser with metal halide as a lasant
[NASA-CASE-NPO-13448-2] c36 N77-24469
Gregorian all-reflective optical system
[NASA-CASE-GSC-12058-1] c74 N77-26942
Wideband heterodyne receiver for laser communication system
[NASA-CASE-GSC-12053-1] c32 N77-28346

LATCHES
Bolt-latch mechanism for releasing despin weights from space vehicle
[NASA-CASE-XLA-00679] c15 N70-38601
Transparent polycarbonate resin, shell helmet and latch design for high altitude and space flight
[NASA-CASE-XMS-04935] c05 N71-11190
Quick disconnect latch and handle combination for mounting articles on walls or supporting bases in spacecraft under zero gravity conditions
[NASA-CASE-MFS-11132] c15 N71-17649
Design, development, and characteristics of latching mechanism for operation in limited access areas
[NASA-CASE-XMS-03745] c15 N71-21076
Latching mechanism with pivoting catch and self-contained spring ejector
[NASA-CASE-XLA-03538] c15 N71-24897
Latch for fastening spacecraft docking rings
[NASA-CASE-MSC-15474-1] c15 N71-26162
Latch mechanism
[NASA-CASE-MSC-12549-1] c37 N74-27903
Load regulating latch
[NASA-CASE-MSC-19535-1] c37 N77-32499

LATERAL CONTROL
Three-axis controller operated by hand-wrist motion for yaw, pitch, and roll control
[NASA-CASE-XAC-01404] c05 N70-41581
Star sensor system for roll attitude control of spacecraft
[NASA-CASE-XNP-01307] c21 N70-41856
Supersonic or hypersonic vehicle control system comprising elevons with hinge line sweep and free of adverse aerodynamic cross coupling
[NASA-CASE-XLA-08967] c02 N71-27088
Vortex-lift roll-control device
[NASA-CASE-LAR-11868-2] c08 N77-31176

LATHES
Rotary spindle lathe attachments for machining geometrical cones
[NASA-CASE-XMS-04292] c15 N71-22722
Lathe tool and holder combination for machining resin impregnated fiberglass cloth laminates
[NASA-CASE-XLA-10470] c15 N72-21489

LAUNCH ESCAPE SYSTEMS
Emergency escape cabin system for launch towers
[NASA-CASE-XKS-02342] c05 N71-11199
Ejector for separating astronaut from ejection seat during prelaunch or initial launch phase of flight
[NASA-CASE-XMS-04625] c05 N71-20718

LAUNCH VEHICLE CONFIGURATIONS
Rotating launch device for a remotely piloted aircraft
[NASA-CASE-ARC-10979-1] c09 N77-19076

LAUNCH VEHICLES
Support techniques for restraint of slender bodies such as launch vehicles
[NASA-CASE-XLA-02704] c11 N69-21540
Microleak detector mounted on weld seam of propellant tank of launch vehicle
[NASA-CASE-XMF-02307] c14 N71-10779

LAUNCHING PADS
Launch pad missile release system with bending moment change rate reduction in thrust distribution structure at liftoff
[NASA-CASE-XMF-03198] c30 N70-40353
Remotely actuated quick disconnect for tubular umbilical conduits used to transfer fluids from ground to rocket vehicle
[NASA-CASE-XLA-01396] c03 N71-12259
Portable equipment for validating C band launch pad antennas and transmission lines used for spacecraft checkout
[NASA-CASE-XKS-10543] c07 N71-26292

LEAD (METAL)
Lead-oxygen dc power supply system having a closed loop oxygen and water system
[NASA-CASE-MFS-23059-1] c44 N76-27664

LEAD TELLURIDES
Bonding method for improving contact between lead telluride thermoelectric elements and tungsten electrodes
[NASA-CASE-XGS-04554] c15 N69-39786
Procedure for segmenting lead telluride and silicon germanium thermoelectric elements to obtain composite elements effective over wide temperature range
[NASA-CASE-XGS-05718] c26 N71-16037

LEADING EDGES
Leading edge design for hypersonic reentry

vehicles
[NASA-CASE-XLA-00165] c31 N70-33242
Construction of leading edges of surfaces for aerial vehicles performing from subsonic to above transonic speeds
[NASA-CASE-XLA-01486] c01 N71-23497
Leading edge protection for composite blades
[NASA-CASE-LEW-12550-1] c24 N77-19170

LEAKAGE
Rocket chamber leak test fixture using tubular plug
[NASA-CASE-XFR-09479] c14 N69-27503
Microleak detector mounted on weld seam of propellant tank of launch vehicle
[NASA-CASE-XMF-02307] c14 N71-10779
Fluid leakage detection system with automatic monitoring capability
[NASA-CASE-LAR-10323-1] c12 N71-17573
Space suit using nonflexible material with low leakage and providing protection against thermal extremes, physical punctures, and radiation with high mobility articulation
[NASA-CASE-XAC-07043] c05 N71-23161
Development of apparatus and method for testing leakage of large tanks
[NASA-CASE-XMF-02392] c32 N71-24285
Gas leak detection in evacuated systems using ultraviolet radiation probe
[NASA-CASE-ERC-10034] c15 N71-24896
Method for locating leaks in hermetically sealed containers
[NASA-CASE-ERC-10045] c15 N71-24910
Volume displacement transducer for leak detection in hermetically sealed semiconductor devices
[NASA-CASE-ERC-10033] c14 N71-26672
Test chambers with orifice and helium mass spectrometer for detecting leak rate of encapsulated semiconductor devices
[NASA-CASE-ERC-10150] c14 N71-28992
Leak detector
[NASA-CASE-MFS-21761-1] c35 N75-15931
Vacuum leak detector
[NASA-CASE-LAR-11237-1] c35 N75-19612

LEG (ANATOMY)
An artificial leg employing a mechanical energy storage device for hip disarticulation
[NASA-CASE-ARC-10916-1] c54 N76-26871
Actuator device for artificial leg
[NASA-CASE-MFS-23225-1] c52 N77-14735
Rotational joint assembly for the prosthetic leg
[NASA-CASE-KSC-11004-1] c54 N77-30749

LENS DESIGN
Device for measuring the contour of a surface
[NASA-CASE-LAR-11869-1] c35 N77-10497

LENSES
Lens assembly for solar furnace or solar simulator
[NASA-CASE-XNP-04111] c14 N71-15622
Camera adapter design for image magnification including lens and illuminator
[NASA-CASE-XMF-03844-1] c14 N71-26474
Development and characteristics of Petzval type objective including field shaping lens for focusing light of specified wavelength band on curved photoreceptor
[NASA-CASE-GSC-10700] c23 N71-30027
Noise elimination in coherent imaging system by axial rotation of optical lense for spectral distribution of degrading affects
[NASA-CASE-GSC-11133-1] c23 N72-11568
Photographic film restoration system using Fourier transformation lenses and spatial filter
[NASA-CASE-MSC-12448-1] c14 N72-20394
Plural beam antenna with parabolic reflectors
[NASA-CASE-GSC-11013-1] c09 N73-19234
Spatial filter for Q-switched lasers
[NASA-CASE-LEW-12164-1] c36 N77-32478

LENTICULAR BODIES
Lenticular vehicle with foldable aerodynamic control flaps and reaction jets for operation above and within earth's atmosphere
[NASA-CASE-XGS-00260] c31 N70-37924

LEVEL (HORIZONTAL)
Hot-wire liquid level detector for cryogenic propellants
[NASA-CASE-XLE-00454] c23 N71-17802

LEVEL (QUANTITY)
Gauge for measuring quantity of liquid in spherical tank in reduced gravity
[NASA-CASE-XMS-06236] c14 N71-21007
Conversion of positive dc voltage to positive dc voltage of lower amplitude
[NASA-CASE-XMF-14301] c09 N71-23188

LEVELING
Development of adjustable attitude guide block for setting pins perpendicular to irregular convex work surface
[NASA-CASE-XLA-07911] c15 N71-15571
Electrical switching device comprising conductive liquid confined within square loop of deformable nonconductive tubing also used for leveling
[NASA-CASE-NPO-10037] c09 N71-19610
Adjustable support device with jacket screw for altering distance between base and supported member
[NASA-CASE-NPO-10721] c15 N72-27484
Automatically operable self-leveling load table
[NASA-CASE-MFS-22039-1] c09 N75-12968
Rotary leveling base platform
[NASA-CASE-ARC-10981-1] c35 N77-10498

LIFE (DURABILITY)
Hollow rolling element bearings
[NASA-CASE-LEW-11087-3] c37 N74-21064

LIFE DETECTORS
Use of enzyme hexokinase and glucose to reduce inherent light levels of ATP in luciferase compositions
[NASA-CASE-XGS-05533] c04 N69-27487
Describing method for lyophilization of luciferase containing mixtures for use in life detection reactions
[NASA-CASE-XGS-05532] c06 N71-17705

LIFE RAFTS
Inflatable stabilizing system for use on life raft to reduce rocking and preclude capsizing
[NASA-CASE-MSC-12393-1] c02 N73-26006
Modification of one man life raft
[NASA-CASE-LAR-10241-1] c54 N74-14845

LIFE SUPPORT SYSTEMS
Shock absorbing couch for body support under high acceleration or deceleration forces
[NASA-CASE-XMS-01240] c05 N70-35152
Portable environmental control and life support system for astronaut in and out of spacecraft
[NASA-CASE-XMS-09632-1] c05 N71-11203
Design and development of flexible tunnel for use by spacecrews in performing extravehicular activities
[NASA-CASE-MSC-12243-1] c05 N71-24728
Development of improved convolute section for pressurized suits to provide high degree of mobility in response to minimum of applied torque
[NASA-CASE-XMS-09637-1] c05 N71-24730
Development and characteristics of inflatable structure to provide escape from orbit for spacecrews under emergency conditions
[NASA-CASE-XMS-06162] c31 N71-28851
Chlorine generator for purifying water in life support systems of manned spacecraft
[NASA-CASE-XLA-08913] c14 N71-28933
Open loop life support subsystem using breathing bag as reservoir for EVA
[NASA-CASE-MSC-12411-1] c05 N72-20096
Device for removing air from water for use in life support systems in manned space flight
[NASA-CASE-XLA-8914] c15 N73-12492
Intra- and extravehicular life support space suite for Apollo astronauts
[NASA-CASE-MSC-12609-1] c05 N73-32012
Catalyst cartridge for carbon dioxide reduction unit
[NASA-CASE-LAR-10551-1] c25 N74-12813
An improved cooling system for removing metabolic heat from an hermetically sealed spacesuit
[NASA-CASE-ARC-11059-1] c54 N77-14743

LIFT DEVICES
Device for handling heavy loads by distributing forces
[NASA-CASE-XNP-04969] c11 N69-27466
Techniques for recovery of multistage rocket vehicles by providing lifting surfaces on individual sections
[NASA-CASE-XMF-00389] c31 N70-34176
Direct lift control system having flaps with slots adjacent to their leading edge and

particularly adapted for lightweight aircraft
[NASA-CASE-LAR-10249-1] c02 N71-26110
Development of auxiliary lifting system to provide ferry capability for entry vehicles
[NASA-CASE-LAR-10574-1] c11 N73-13257
High lift aircraft --- with improved stability, control, performance, and noise characteristics
[NASA-CASE-LAR-11252-1] c05 N75-25914
Device for installing rocket engines
[NASA-CASE-MFS-19220-1] c20 N76-22296
Vortex-lift roll-control device
[NASA-CASE-LAR-11868-2] c08 N77-31176

LIFT DRAG RATIO
Design of ring wing vehicle of high drag-to-weight ratio to withstand reentry stress into low density atmosphere
[NASA-CASE-XLA-04901] c31 N71-24315

LIFTING BODIES
Techniques for recovery of multistage rocket vehicles by providing lifting surfaces on individual sections
[NASA-CASE-XMF-00389] c31 N70-34176
Graphic illustration of lifting body design
[NASA-CASE-FRC-10063] c01 N71-12217
Static force balancing system attached to lifting body
[NASA-CASE-LAR-10348-1] c11 N73-12264

LIFTING REENTRY VEHICLES
Lenticular vehicle with foldable aerodynamic control flaps and reaction jets for operation above and within earth's atmosphere
[NASA-CASE-XGS-00260] c31 N70-37924
Variable geometry manned orbital vehicle having high aerodynamic efficiency over wide speed range and incorporating auxiliary pivotal wings
[NASA-CASE-XLA-03691] c31 N71-15674
Designing spacecraft for flight into space, atmospheric reentry, and landing at selected sites
[NASA-CASE-XAC-02058] c02 N71-16087

LIGHT (VISIBLE RADIATION)
Light baffle with oblate hemispheroid surface and shading flange
[NASA-CASE-NPO-10337] c14 N71-15604
Maksutov spectrograph for low light level research
[NASA-CASE-XLA-10402] c14 N71-29041
Device for detection of combustion light preceding gaseous explosions
[NASA-CASE-LAR-10739-1] c14 N73-16484

LIGHT AIRCRAFT
Direct lift control system having flaps with slots adjacent to their leading edge and particularly adapted for lightweight aircraft
[NASA-CASE-LAR-10249-1] c02 N71-26110

LIGHT BEAMS
Cylindrical reflector for resolving wide angle light beam from telescope into narrow beam for spectroscopic analysis
[NASA-CASE-XGS-08269] c23 N71-26206
Development and characteristics of optical communications system based on modulation of light beams
[NASA-CASE-XLA-01090] c16 N71-28963
Multiple pattern holographic information storage and readout system
[NASA-CASE-ERC-10151] c16 N71-29131

LIGHT GAS GUNS
Implosion driven, light gas, hypervelocity gun
[NASA-CASE-XAC-05902] c11 N71-18578

LIGHT MODULATION
Optical retrodirective modulator with focus spoiling reflector driven by modulation signal
[NASA-CASE-GSC-10062] c14 N71-15605
Modulating and controlling intensity of light beam from high temperature source by servocontrolled rotating cylinders
[NASA-CASE-XMS-04300] c09 N71-19479
Method and apparatus for optically modulating light or microwave beam
[NASA-CASE-GSC-10216-1] c23 N71-26722
Development and characteristics of optical communications system based on modulation of light beams
[NASA-CASE-XLA-01090] c16 N71-28963
Lamp modulator for generating visual indication of presence and magnitude of signal
[NASA-CASE-KSC-10565] c09 N72-25250
Polarization compensator for optical communications
[NASA-CASE-GSC-11782-1] c74 N76-30053

LIGHT SCATTERING
Forward-scatter polarimeter for determining the gaseous depolarization factor in the presence of polluting polydispersed particles
[NASA-CASE-NPO-13756-1] c35 N76-14434
A 2 degree/90 degree laboratory scattering photometer
[NASA-CASE-GSC-12088-1] c35 N76-17369

LIGHT SCATTERING METERS
System for the measurement of ultra-low stray light levels --- light shields and baffles
[NASA-CASE-MFS-23513-1] c74 N77-14842

LIGHT SOURCES
Light radiation direction indicator with baffle of two parallel grids
[NASA-CASE-XNP-03930] c14 N69-24331
High intensity heat and light unit containing quartz lamp elements protectively positioned to withstand severe environmental stress
[NASA-CASE-XLA-00141] c09 N70-33312
Photosensitive light source device for detecting unmanned spacecraft deviation from reference attitude
[NASA-CASE-XNP-00438] c21 N70-35089
Electro-optical detector for determining position of light source
[NASA-CASE-XNP-01059] c23 N71-21821
Optical system for selecting particular wavelength light beams from multiple wavelength light source
[NASA-CASE-ERC-10248] c14 N72-17323
Electro-optical stabilization of calibrated light source
[NASA-CASE-MSC-12293-1] c14 N72-27411
Development of temperature compensated light source with components and circuitry for maintaining luminous intensity independent of temperature variations
[NASA-CASE-ARC-10467-1] c09 N73-14214
Interferometer prism and control system for precisely determining direction to remote light source
[NASA-CASE-ARC-10278-1] c14 N73-25463
Attitude sensor
[NASA-CASE-LAR-10586-1] c19 N74-15089
Very high intensity light source using a cathode ray tube --- electron beams
[NASA-CASE-XNP-01296] c33 N75-27250
Electric arc light source having undercut recessed anode
[NASA-CASE-ARC-10266-1] c33 N75-29318
Uniform variable light source
[NASA-CASE-NPO-11429-1] c74 N77-21941

LIGHT TRANSMISSION
Hybrid holographic system using reference, transmitted, and reflected beams simultaneously
[NASA-CASE-MFS-20074] c16 N71-15565
Optical characteristics measuring apparatus
[NASA-CASE-XNP-08840] c23 N71-16365
Optical monitor panel consisting of translucent screen with test or meter information projected onto it from rear for application in control rooms of missile launching and tracking stations
[NASA-CASE-XKS-03509] c14 N71-23175
Solar cell panel with light transmitting cover plate
[NASA-CASE-NPO-10747] c03 N72-22042
Method and system for transmitting and distributing optical frequency radiation
[NASA-CASE-HQN-10541-3] c23 N72-23695
Thin absorbing metallic film for increased visible light transmission
[NASA-CASE-LAR-10836-1] c26 N72-27784
Transmitting and reflecting diffuser --- for ultraviolet light
[NASA-CASE-LAR-10385-2] c70 N74-13436
Optical instrument employing reticle having preselected visual response pattern formed thereon
[NASA-CASE-ARC-10976-1] c74 N77-22950

LIGHTING EQUIPMENT
Sealed fluorescent tube light unit capable of connection with other units to form string of work lights
[NASA-CASE-XKS-05932] c09 N71-26787
Pressurized inert gas feed for lighting system
[NASA-CASE-KSC-10644] c09 N72-27227

LIGHTNING
Apparatus for determining distance to lighting strokes from single station by magnetic and electric field sensing antennas [NASA-CASE-KSC-10698] c07 N73-20175
System for locating lightning strokes by coordination of directional antenna signals [NASA-CASE-KSC-10729-1] c09 N73-32110
Monitoring and recording lightning strokes in predetermined area [NASA-CASE-KSC-10728-1] c14 N73-32319
Lightning current measuring systems [NASA-CASE-KSC-10807-1] c33 N75-26246
Remote lightning monitor system [NASA-CASE-KSC-11031-1] c33 N77-21319
Lightning current waveform measuring system [NASA-CASE-KSC-11018-1] c33 N77-21320

LIMITER CIRCUITS
Variable duration pulse integrator design for integrating pulse duration modulated pulses with elimination of ripple content [NASA-CASE-XLA-01219] c10 N71-23084
Circuits for amplitude limiting of random noise inputs [NASA-CASE-NPO-10169] c10 N71-24844
Velocity limiting safety system for motor driven research vehicle [NASA-CASE-XLA-07473] c15 N71-24895
Low level signal limiter [NASA-CASE-XLE-04791] c32 N74-22096
Inrush current limiter [NASA-CASE-GSC-11789-1] c33 N77-14333

LINEAR ACCELERATORS
Linear accelerator frequency control system [NASA-CASE-XGS-05441] c10 N71-22962

LINEAR RECEIVERS
Antenna array at focal plane of reflector with coupling network for beam switching [NASA-CASE-GSC-10220-1] c07 N71-27233

LINEAR SYSTEMS
Linear three-tap feedback shift register [NASA-CASE-NPO-10351] c08 N71-12503
Family of m-ary linear feedback shift register with binary logic [NASA-CASE-NPO-11868] c10 N73-20254

LINEARITY
Semilinear bearing comprising two rows of roller bearings separated by spherical bearings and permitting rotational and translational movement [NASA-CASE-XLA-02809] c15 N71-22982
Mechanical actuator wherein linear motion changes to rotational motion [NASA-CASE-XGS-04548] c15 N71-24045

LINKAGES
Development of collapsible nozzle extension for rocket engines [NASA-CASE-MFS-11497] c28 N71-16224
Design and construction of mechanical probe for determining if object is properly secured [NASA-CASE-MFS-20760] c14 N72-33377

LIQUEFACTION
Ophthalmic liquifaction pump [NASA-CASE-LEW-12051-1] c52 N75-33640
Improved tissue macerating instrument --- ophthalmic liquifaction pump [NASA-CASE-LEW-12668-1] c52 N76-23837

LIQUID BEARINGS
Fatigue life of hybrid antifriction bearings at ultrahigh speeds [NASA-CASE-LEW-11152-1] c15 N73-32359

LIQUID COOLING
Water cooled contactors for holding rotating carbon arc anode [NASA-CASE-XMS-03700] c15 N69-24266
External device for liquid spray cooling of gas turbine blades [NASA-CASE-XLE-00037] c28 N70-33372
Water cooled solenoid capable of producing magnetic field intensities up to 100 kilogauss [NASA-CASE-XNP-01951] c09 N70-41929
Laminar flow of liquid coolants in rocket engines [NASA-CASE-NPO-10122] c12 N71-17631
Space suit body heat exchanger design composed of thermal conductance yarn and liquid coolant loops [NASA-CASE-XMS-09571] c05 N71-19439
Electric power system with circulatory liquid coolant cooling system [NASA-CASE-MFS-14114-2] c09 N71-24807
Electric power system with thermionic diodes and circulatory liquid metal coolant lines [NASA-CASE-MFS-14114] c33 N71-27862
Apparatus for liquid spray cooling of turbine blades [NASA-CASE-XLE-00027] c33 N71-29152
Automatic control device for regulating inlet water temperature of liquid cooled spacesuit [NASA-CASE-MSC-13917-1] c05 N72-15098
Automatic temperature control for liquid cooled space suit [NASA-CASE-ARC-10599-1] c05 N73-26071
Heat exchanger system and method [NASA-CASE-LAR-10799-2] c34 N76-17317
Closed loop spray cooling apparatus --- for particle accelerator targets [NASA-CASE-LEW-11981-1] c37 N76-20486
Liquid cooled brassiere and method of diagnosing malignant tumors therewith [NASA-CASE-ARC-11007-1] c52 N77-14736

LIQUID CRYSTALS
Development of combined velocimeter and accelerometer based on color changes in liquid crystalline material subjected to shear stresses [NASA-CASE-ERC-10292] c14 N72-25410
Input signal measurement using liquid crystalline elements [NASA-CASE-ERC-10275] c26 N72-25680
Real time liquid crystal image converter [NASA-CASE-LAR-11206-1] c74 N74-30118

LIQUID FILLED SHELLS
Liquid rocket systems for propulsion and control of spacecraft [NASA-CASE-XNP-00610] c28 N70-36910
Design and development of fluid sample collector [NASA-CASE-XMS-06767-1] c14 N71-20435
Manufacture of fluid containers from fused coated polyester sheets having resealable septum [NASA-CASE-NPO-10123] c15 N71-24835
Omnidirectional liquid filled accelerometer design with liquid and housing temperature compensation [NASA-CASE-HQN-10780] c14 N71-30265

LIQUID FLOW
Reduced gravity liquid configuration simulator to study propellant behavior in rocket fuel tanks [NASA-CASE-XLE-02624] c12 N69-39988
Liquid junction for glass electrode or pH meters [NASA-CASE-NPO-10682] c15 N70-34699
Actuator using compressed gas as driving force to control valve handling large liquid flows [NASA-CASE-XHQ-01208] c15 N70-35409
Two component valve assembly for cryogenic liquid transfer regulation [NASA-CASE-XLE-00397] c15 N70-36492
Positive displacement flowmeter for measuring extremely low flows of fluid with self calibrating features [NASA-CASE-XNP-02822] c14 N70-41994
High pressure liquid flow sight assembly for wide temperature range applications including cryogenic fluids [NASA-CASE-XLE-02998] c14 N70-42074
Carrier liquid system containing bodies of ablative material [NASA-CASE-LEW-10359-2] c33 N73-25952
Zero gravity liquid transfer device, using spiral shaped screen [NASA-CASE-KSC-10626] c14 N73-27378
System for measuring Reynolds in a turbulently flowing fluid --- signal processing [NASA-CASE-ARC-10755-2] c34 N76-27517

LIQUID HELIUM
Heat operated cryogenic electrical generator [NASA-CASE-NPO-13303-1] c20 N75-24837
Helium refrigerator [NASA-CASE-NPO-13435-1] c31 N76-14284
Cryostat system for temperatures on the order of 2 deg K or less [NASA-CASE-NPO-13459-1] c31 N77-10229
Multistation refrigeration system [NASA-CASE-NPO-13839-1] c31 N77-15219

LIQUID HYDROGEN
Development of thermal insulation material for insulating liquid hydrogen tanks in spacecraft [NASA-CASE-XNP-05046] c33 N71-28892
Reinforced polyquinoxaline gasket and method of preparing the same --- resistant to ionizing

radiation and liquid hydrogen temperatures
[NASA-CASE-MFS-21364-1] c37 N74-18126
LIQUID INJECTION
Thrust vector control by secondary injection of fluid into rocket nozzle flow field to separate exhaust flow
[NASA-CASE-XLE-00208] c28 N70-34294
System for aerodynamic control of rocket vehicles by secondary injection of fluid into nozzle exhaust stream
[NASA-CASE-XLA-01163] c21 N71-15582
Propellant injection assembly having individually removable and replaceable nozzles for liquid fueled rocket engines
[NASA-CASE-XMF-00968] c28 N71-15660
LIQUID LASERS
Method and apparatus using temperature control for wavelength tuning of liquid lasers
[NASA-CASE-ERC-10187] c16 N69-31343
LIQUID LEVELS
Inductive liquid level detection system
[NASA-CASE-XLE-01609] c14 N71-10500
LIQUID METALS
Magnetohydrodynamic generator for mixing nonconductive gas and liquid metal mist to form slugs
[NASA-CASE-XLE-02083] c03 N69-39983
Thermoelectric power conversion by liquid metal flowing through magnetic field
[NASA-CASE-XNP-00644] c03 N70-36803
Analytical test apparatus and method for determining oxygen content in alkali liquid metal
[NASA-CASE-XLE-01997] c06 N71-23527
Electric power system with thermionic diodes and circulatory liquid metal coolant lines
[NASA-CASE-MFS-14114] c33 N71-27862
Flexible barrier membrane comprising porous substrate and incorporating liquid gallium or indium metal used as sealant barriers for spacecraft walls and pumping liquid propellants
[NASA-CASE-XNP-08881] c17 N71-28747
Shell-side liquid metal boiler employing tube and shell heat exchanger
[NASA-CASE-NPC-10831] c33 N72-20915
U shaped heated tube for distillation and purification of liquid metals
[NASA-CASE-XNP-08124-2] c06 N73-13129
Electromagnetic flow rate meter --- for liquid metals
[NASA-CASE-LEW-10981-1] c35 N74-21018
Liquid metal slip ring
[NASA-CASE-LEW-12277-1] c33 N76-28472
Process for preparing liquid metal electrical contact device
[NASA-CASE-LEW-11978-1] c33 N77-26385
LIQUID NITROGEN
Transferring liquid nitrogen through vacuum chamber to cryopanel
[NASA-CASE-LAR-10031] c15 N72-22484
LIQUID OXYGEN
Dye penetrant and technique for nondestructive tests of solid surfaces contacted by liquid oxygen
[NASA-CASE-XMF-02221] c18 N71-27170
Flame-resistant liquid oxygen compatible neoprene rubber composition
[NASA-CASE-KSC-11020-1] c27 N77-23267
LIQUID PHASES
Method and feed system for separating and orienting liquid and vapor phases of liquid propellants in zero gravity environment
[NASA-CASE-XLE-01182] c27 N71-15635
Hydraulic apparatus for casting and molding of liquid polymers
[NASA-CASE-XNP-07659] c06 N71-22975
Mixed liquid and vapor phase analyzer design with thermocouples for relative heat transfer measurement
[NASA-CASE-NPO-10691] c14 N71-26199
Low gravity phase separator
[NASA-CASE-MSC-14773-1] c31 N75-32262
Cryogenic liquid sensor
[NASA-CASE-NPO-10619-1] c35 N77-21393
LIQUID PROPELLANT ROCKET ENGINES
High thrust annular liquid propellant rocket engine and exhaust nozzle design
[NASA-CASE-XLE-00078] c28 N70-33284
Attitude and propellant flow control system for liquid propellant rocket vehicles
[NASA-CASE-XMF-00185] c21 N70-34539
Injector manifold assembly for bipropellant rocket engines providing for fuel propellant to serve as coolant
[NASA-CASE-XMF-00148] c28 N70-38710
Collapsible auxiliary tank for restarting liquid propellant rocket motors under zero gravity
[NASA-CASE-XNP-01390] c28 N70-41275
Rocket propellant injector with porous faceplate for rocket engine combustion chamber
[NASA-CASE-LEW-11071-1] c27 N73-27695
Supersonic-combustion rocket
[NASA-CASE-LEW-11058-1] c20 N74-13502
Space vehicle
[NASA-CASE-MFS-22734-1] c18 N75-19329
LIQUID ROCKET PROPELLANTS
Propellant injectors for rocket combustion chambers
[NASA-CASE-XLE-00103] c28 N70-33241
Liquid rocket systems for propulsion and control of spacecraft
[NASA-CASE-XNP-00610] c28 N70-36910
Igniter capsule for chemical ignition of liquid rocket propellants
[NASA-CASE-XLE-00323] c28 N70-38505
High temperature spark plug for igniting liquid rocket propellants
[NASA-CASE-XLE-00660] c28 N70-39925
Compact high pressure filter for rocket fuel lines
[NASA-CASE-XNP-00732] c28 N70-41447
Venting device for liquid propellant storage tank using magnetic field to separate liquid and gaseous phases
[NASA-CASE-XLE-01449] c15 N70-41646
Liquid propellant tank design with semitoroidal bulkhead
[NASA-CASE-XMF-01899] c31 N70-41948
Method and feed system for separating and orienting liquid and vapor phases of liquid propellants in zero gravity environment
[NASA-CASE-XLE-01182] c27 N71-15635
Control valve and coaxial variable injector for controlling bipropellant mixture ratio and flow
[NASA-CASE-XNP-09702] c15 N71-17654
Slosh and swirl alleviator for liquid propellant tanks during transport and flight
[NASA-CASE-XLA-05749] c15 N71-19569
Filler valve design for supplying liquid propellants at high pressure to space vehicles
[NASA-CASE-XNP-01747] c15 N71-23024
Electronic recording system for spatial mass distribution of liquid rocket propellant droplets or vapors ejected from high velocity nozzles
[NASA-CASE-NPO-10185] c10 N71-26339
Flexible barrier membrane comprising porous substrate and incorporating liquid gallium or indium metal used as sealant barriers for spacecraft walls and pumping liquid propellants
[NASA-CASE-XNP-08881] c17 N71-28747
Response analyzing apparatus for liquid vapor interface sensor of sloshing rocket propellant
[NASA-CASE-MFS-11204] c14 N71-29134
LIQUID SLOSHING
Slosh damping method for liquid rocket propellant tanks
[NASA-CASE-XMF-00658] c12 N70-38997
Flexible ring slosh damping baffle for spacecraft fuel tank
[NASA-CASE-LAR-10317-1] c32 N71-16103
Submerged fuel tank baffles to prevent sloshing in liquid propellant rocket flight
[NASA-CASE-XLA-04605] c32 N71-16106
Hot-wire liquid level detector for cryogenic propellants
[NASA-CASE-XLE-00454] c23 N71-17802
Slosh and swirl alleviator for liquid propellant tanks during transport and flight
[NASA-CASE-XLA-05749] c15 N71-19569
Pressure sensor network for measuring liquid dynamic response in flight including fuel tank acceleration, liquid slosh amplitude, and fuel depth monitoring
[NASA-CASE-XLA-05541] c12 N71-26387
LIQUID-GAS MIXTURES
Liquid-gas separator adapted for use in zero gravity environment - drawings

[NASA-CASE-XMS-01624] c15 N70-40062
Absorbent apparatus for separating gas from liquid-gas stream used in environmental control under zero gravity conditions
[NASA-CASE-XMS-01492] c05 N70-41297
Venting device for liquid propellant storage tank using magnetic field to separate liquid and gaseous phases
[NASA-CASE-XLE-01449] c15 N70-41646
Liquid-gaseous centrifugal separator for weightlessness environment
[NASA-CASE-XLA-00415] c15 N71-16079
Vapor-liquid separator design with vapor driven pump for separated liquid pumping for application in propellant transfer
[NASA-CASE-XMF-04042] c15 N71-23023

LIQUID-VAPOR INTERFACES
Describing apparatus for separating gas from cryogenic liquid under zero gravity and for venting gas from fuel tank
[NASA-CASE-XLE-00586] c15 N71-15968
Liquid-vapor interface seal design for turbine rotating shafts including helical and molecular pumps and liquid cooling of mercury vapor
[NASA-CASE-XNP-02862-1] c15 N71-26294
Response analyzing apparatus for liquid vapor interface sensor of sloshing rocket propellant
[NASA-CASE-MFS-11204] c14 N71-29134

LIQUIDS
Liquid-gas separator adapted for use in zero gravity environment - drawings
[NASA-CASE-XMS-01624] c15 N70-40062
Electrical switching device comprising conductive liquid confined within square loop of deformable nonconductive tubing also used for leveling
[NASA-CASE-NPO-10037] c09 N71-19610
Purification apparatus for vaporization and fractional distillation of liquids
[NASA-CASE-XNP-08124] c15 N71-27184
Quantitative liquid measurements in container by resonant frequencies
[NASA-CASE-XNP-02500] c18 N71-27397
Resonant infrasonic gauging device for measuring liquid quantity in closed bladderless reservoir
[NASA-CASE-MSC-11847-1] c14 N72-11363
Ablative system with liquid carrying ablattive material bodies and forming self-replacing ablative surface
[NASA-CASE-LEW-10359] c33 N72-25911
Pressurized tank for feeding liquid waste into processing equipment
[NASA-CASE-LAR-10365-1] c05 N72-27102
Apparatus for mixing two or more liquids under zero gravity conditions
[NASA-CASE-LAR-10195-1] c15 N73-19458
Bimetallic fluid displacement apparatus --- for stirring and heating stored gases and liquids
[NASA-CASE-ARC-10441-1] c35 N74-15126
Method and device for detection of surface discontinuities or defects
[NASA-CASE-MSC-14187-1] c35 N74-32879
Automatic liquid inventory collecting and dispensing unit
[NASA-CASE-LAR-11071-1] c35 N75-19611
A 2 degree/90 degree laboratory scattering photometer
[NASA-CASE-GSC-12088-1] c35 N76-17369
Thermal energy storage system --- operating on superheating of liquids
[NASA-CASE-MFS-23167-1] c44 N76-31667

LITHIUM COMPOUNDS
Utilization of lithium p-lithiphenoxide to prepare star polymers
[NASA-CASE-NPO-10998-1] c06 N73-32029

LOAD DISTRIBUTION (FORCES)
Force measuring instrument for structural members, particularly fastening bolts or studs
[NASA-CASE-XMF-00456] c14 N70-34705
Multiple Belleville spring assembly with even load distribution
[NASA-CASE-XNP-00840] c15 N70-38225
Device for use in loading tension members --- characterized by elongated elastic body
[NASA-CASE-MFS-21488-1] c14 N75-24794
Pneumatic load compensating or controlling system
[NASA-CASE-ARC-10907-1] c37 N75-32465

LOAD TESTING MACHINES
Load cell protection device using spring-loaded breakaway mechanism
[NASA-CASE-XMS-06782] c32 N71-15974
Development of device for transferring load from load cell to bypass mechanism
[NASA-CASE-XMS-06329-1] c15 N71-20441
Method and apparatus for tensile testing of metal foil
[NASA-CASE-LAR-10208-1] c35 N76-18400

LOAD TESTS
Differential pressure cell insensitive to changes in ambient temperature and extreme overload
[NASA-CASE-XAC-00042] c14 N70-34816

LOADING OPERATIONS
Air bearings for near frictionless transfer of loads from one body to another
[NASA-CASE-XMF-01887] c15 N71-10617

LOADS (FORCES)
Device for handling heavy loads by distributing forces
[NASA-CASE-XNP-04969] c11 N69-27466
Two plane balance for simultaneous measurements of multiple forces
[NASA-CASE-XAC-00073] c14 N70-34813
Improving load capacity and fatigue life of rolling element systems in rockets and missiles
[NASA-CASE-XLE-02999] c15 N71-16052
Development of device for transferring load from load cell to bypass mechanism
[NASA-CASE-XMS-06329-1] c15 N71-20441
Valve assembly for controlling simultaneously more than one fluid flow, and having stable qualities under loads
[NASA-CASE-XMS-05890] c09 N71-23191
Solid state force measuring electromechanical transducers made of piezoresistive materials
[NASA-CASE-ERC-10088] c26 N71-25490
Turn on current transient limiter for controlling peak current flow in high capacity load
[NASA-CASE-GSC-10413] c10 N71-26531
Synchronous dc direct-drive system comprising multiple-loop hybrid control system controlling load directly connected to actuator
[NASA-CASE-GSC-10065-1] c10 N71-27136
Force balanced throttle valve for fuel control in rocket engines
[NASA-CASE-NPO-10808] c15 N71-27432
Energy absorption device in high precision gear train for protection against damage to components caused by stop loads
[NASA-CASE-XNP-01848] c15 N71-28959
Air bearing for use in exterior environment for moving heavy loads
[NASA-CASE-NLP-10002] c15 N72-17451
Measuring device for bearing preload using spring washers
[NASA-CASE-MFS-20434] c11 N72-25288
Variable direction force coupler for transmitting force along selectable curve path
[NASA-CASE-MFS-20317] c15 N73-13463
Versatile ergometer with work load control
[NASA-CASE-MFS-21109-1] c05 N73-27941
Three-axis adjustable loading structure
[NASA-CASE-FRC-10051-1] c35 N74-13129
G-load measuring and indicator apparatus --- for aircraft
[NASA-CASE-ARC-10806] c06 N74-27872
Spring operated accelerator and constant force spring mechanism therefor
[NASA-CASE-ARC-10898-1] c35 N77-18417
Penetrometer --- for determining load bearing characteristics of inclined surfaces
[NASA-CASE-NPO-11103-1] c35 N77-27367
Load regulating latch
[NASA-CASE-MSC-19535-1] c37 N77-32499

LOCATES SYSTEM
System for locating lightning strokes by coordination of directional antenna signals
[NASA-CASE-KSC-10729-1] c09 N73-32110
Position determination systems --- using orbital antenna scan of celestial bodies
[NASA-CASE-MSC-12593-1] c17 N76-21250

LOCKING
Releasable coupling device designed to receive and retain matching ends of electrical connectors

[NASA-CASE-XMS-07846-1] c09 N69-21927
LOCKS (FASTENERS)
Ball locking device which releases in response to small forces when subjected to high axial loads
[NASA-CASE-XMF-01371] c15 N70-41829
Low friction bearing and lock mechanism for two-axis gimbal carrying satellite payload
[NASA-CASE-GSC-10556-1] c31 N71-26537
Locking device for retaining turbine rotor blades on turbine wheel
[NASA-CASE-XNP-00816] c28 N71-28928
Longitudinalfilm gate and lock mechanism for securing film in motion picture cameras under vibration and high acceleration loads
[NASA-CASE-LAR-10686] c14 N71-28935
Design of quick release locking pin for joining two or more load-carrying structural members
[NASA-CASE-MFS-18495] c15 N72-11385
Locking mechanism for orthopedic braces
[NASA-CASE-GSC-12082-1] c54 N76-22914
Locking mechanism for orthopedic braces
[NASA-CASE-GSC-12082-2] c52 N77-27694
LOCOMOTION
Jet shoes for space locomotion
[NASA-CASE-XLA-08491] c05 N69-21380
Attitude control training device for astronauts permitting friction-free movement with five degrees of freedom
[NASA-CASE-XMS-02977] c11 N71-10746
Restraint torso for increased mobility and reduced physiological effects while wearing pressurized suits
[NASA-CASE-MSC-12397-1] c05 N72-25119
LOGARITHMIC RECEIVERS
Logarithmic circuit with wide dynamic range
[NASA-CASE-GSC-12145-1] c33 N77-19319
LOGARITHMS
Technique for deriving logarithm of input signal using exponentially varying electric signal inversely
[NASA-CASE-ERC-10267] c09 N72-23173
LOGIC CIRCUITS
Selective gold diffusion on monolithic silicon chips for switching and nonswitching amplifier devices and circuits and linear and digital logic circuits
[NASA-CASE-ERC-10072] c09 N70-11148
Counter-divider circuit for accuracy and reliability in binary circuits
[NASA-CASE-XNP-00421] c09 N70-34502
Binary to binary-coded decimal converter using single set of logic circuits notwithstanding number of shift register decades
[NASA-CASE-XNP-00432] c08 N70-35423
Conversion system for increasing resolution of analog to digital converters
[NASA-CASE-XAC-00404] c08 N70-40125
Data processor having multiple sections activated at different times by selective power coupling to sections
[NASA-CASE-XGS-04767] c08 N71-12494
Binary sequence detector with few memory elements and minimized logic circuit complexity
[NASA-CASE-XNP-05415] c08 N71-12505
Bistable multivibrator circuits operating at high speed and low power dissipation
[NASA-CASE-XGS-00823] c10 N71-15910
Logic AND gate for fluid circuits
[NASA-CASE-XIA-07391] c12 N71-17579
Logic circuit to ripple add and subtract binary counters for spaceborne computers
[NASA-CASE-XGS-04766] c08 N71-18602
Constructing Exclusive-Or digital logic circuit in single module
[NASA-CASE-XLA-07732] c08 N71-18751
Stepping motor control apparatus exciting windings in proper time sequence to cause motor to rotate in either direction
[NASA-CASE-GSC-10366-1] c10 N71-18772
Serial digital decoder design with square circuit matrix and serial memory storage units
[NASA-CASE-NPO-10150] c08 N71-24650
Binary to decimal decoder logic circuit design with feedback control and display device
[NASA-CASE-XKS-06167] c08 N71-24890
Design and development of multistage current steering switch with inductively coupled magnetic cores
[NASA-CASE-XNP-08567] c09 N71-26000
Logic circuit for generating multibit binary code word in parallel
[NASA-CASE-XNP-04623] c10 N71-26103
Adaptive signal generating system and logic circuits for satellite television systems
[NASA-CASE-GSC-11367] c10 N71-26374
Transistorized switching logic circuits with tunnel diodes
[NASA-CASE-GSC-10878-1] c10 N72-22236
Logical function and circuit generator
[NASA-CASE-XLA-05099] c09 N73-13209
A synchronous binary array divider
[NASA-CASE-ERC-10180-1] c60 N74-20836
Four phase logic systems --- including integrated microcircuits
[NASA-CASE-MSC-14240-1] c33 N75-14957
An interleaving device --- for computer logic circuits used in optical data processing
[NASA-CASE-GSC-12111-2] c60 N77-31800
LOGICAL ELEMENTS
An interleaving device --- for computer logic circuits used in optical data processing
[NASA-CASE-GSC-12111-2] c60 N77-31800
LONGITUDINAL CONTROL
Three-axis controller operated by hand-wrist motion for yaw, pitch, and roll control
[NASA-CASE-XAC-01404] c05 N70-41581
LOOP ANTENNAS
Collapsible, space erectable loop antenna system for space vehicle
[NASA-CASE-XMF-00437] c07 N70-40202
Automatic carrier acquisition system for phase locked loop receiver
[NASA-CASE-NPO-11628-1] c07 N73-30113
LOOPS
Tape cartridge with high capacity storage of endless-loop magnetic tape
[NASA-CASE-XGS-00769] c14 N70-41647
Endless loop tape transport mechanism for driving and tensioning recording medium in magnetic tape recorder
[NASA-CASE-XGS-01223] c07 N71-10609
Filter for third order phase locked loops in signal receivers
[NASA-CASE-NPO-11941-1] c10 N73-27171
High speed shutter --- electrically actuated ribbon loop for shuttering optical or fluid passageways
[NASA-CASE-ARC-10516-1] c70 N74-21300
Means for accommodating large overstrain in lead wires --- by storing extra length of wire in stretchable loop
[NASA-CASE-LAR-10168-1] c33 N74-22865
Closed loop spray cooling apparatus
[NASA-CASE-LEW-11981-2] c34 N77-32434
LOW ASPECT RATIO
Aerospace configuration with low and high aspect ratio variability for high and low speed flight
[NASA-CASE-XLA-00142] c02 N70-33286
Aerodynamic configuration for aircraft capable of high speed flight and low drag for low speed takeoff or landing upon presently existing airfields
[NASA-CASE-XLA-00806] c02 N70-34858
LOW COST
Improved low cost substrates for polycrystalline solar cells --- for solar energy conversion
[NASA-CASE-GSC-12022-2] c44 N76-26695
Fabrication of polycrystalline solar cells on low-cost substrates
[NASA-CASE-GSC-12022-1] c44 N76-28635
Low cost solar energy collection system
[NASA-CASE-NPO-13579-3] c44 N77-20566
LOW DENSITY MATERIALS
Method and photodetector device for locating abnormal voids in low density materials
[NASA-CASE-MFS-20044] c14 N71-28993
Intumescent composition, foamed product prepared therewith and process for making same
[NASA-CASE-ARC-10304-2] c27 N74-27037
Mixing insert for foam dispensing apparatus
[NASA-CASE-MFS-20607-1] c37 N76-19436
LOW FREQUENCIES
Determining sway of buildings by low frequency device using pendulum
[NASA-CASE-XNP-00479] c14 N70-34794
LOW GRAVITY MANUFACTURING
Method for manufacturing mirrors in zero gravity

environment
[NASA-CASE-MSC-12611-1] c12 N76-15189
LOW MOLECULAR WEIGHTS
Process for preparing high molecular weight polyarylcxysilanes from lower molecular weight forms
[NASA-CASE-XMF-08674] c06 N71-28807
LOW NOISE
Low phase noise frequency divider for use with deep space network communication system
[NASA-CASE-NPO-11569] c10 N73-26229
Reflected-wave maser --- low noise amplifier
[NASA-CASE-NPO-13490-1] c36 N76-31512
LOW PRESSURE
Flowmeters for sensing low fluid flow rate and pressure for application to respiration rate studies
[NASA-CASE-FRC-10022] c12 N71-26546
LOW SPEED
Variable geometry manned orbital vehicle having high aerodynamic efficiency over wide speed range and incorporating auxiliary pivotal wings
[NASA-CASE-XLA-03691] c31 N71-15674
Device utilizing RC rate generators for continuous slow speed measurement
[NASA-CASE-XMF-02966] c10 N71-24863
LOW TEMPERATURE ENVIRONMENTS
Flexible, frangible electrochemical cell and package for operation in low temperature environment
[NASA-CASE-XGS-10010] c03 N72-15986
LOW TEMPERATURE TESTS
Cryostat for flexure fatigue testing of composite materials
[NASA-CASE-XMF-02964] c14 N71-17659
Cryostat for use with horizontal fatigue testing machines at low temperatures
[NASA-CASE-XMF-10968] c14 N71-24234
LOW THRUST
Low thrust monopropellant engine
[NASA-CASE-GSC-12194-1] c20 N77-28219
LOW VACUUM
Vibration damping system operating in low vacuum environment for spacecraft mechanisms
[NASA-CASE-XMS-01620] c23 N71-15673
LOW VOLTAGE
High speed low level voltage commutating switch
[NASA-CASE-XAC-00060] c09 N70-39915
Flexible monopole antenna with broad bandwidth and low voltage standing wave ratio
[NASA-CASE-MSC-12101] c09 N71-18720
Circuit design for failure sensing and protecting low voltage electric generator and power transmission networks
[NASA-CASE-GSC-10114-1] c10 N71-27366
LUBRICANTS
Metallic film diffusion into metal or ceramic surfaces for boundary lubrication in aerospace environments
[NASA-CASE-XLE-01765] c18 N71-10772
Metallic film diffusion for boundary lubrication in aerospace engineering
[NASA-CASE-XLE-10337] c15 N71-24046
Fluorinated esters of polycarboxylic acid and lubricating compositions for use at extreme temperature
[NASA-CASE-MFS-21040-1] c06 N73-30098
Thiophenyl ether disiloxanes and trisiloxanes useful as lubricant fluids
[NASA-CASE-MFS-22411-1] c37 N74-21058
Journal bearings --- for lubricant films
[NASA-CASE-LEW-11076-1] c37 N74-21061
LUBRICATING OILS
Fluid seal formed by flexible disk on rotating shaft to retain lubricating oils around shaft
[NASA-CASE-XLE-05130-2] c15 N71-19570
LUBRICATION
Hollow high strength rolling elements for antifriction bearings fabricated from preformed components
[NASA-CASE-LEW-11026-1] c15 N73-33383
Variable resistance constant tension and lubrication device --- using oil-saturated leather wiper
[NASA-CASE-KSC-10723-1] c37 N75-13265
Fluid journal bearings
[NASA-CASE-LEW-11076-4] c37 N76-15461
LUBRICATION SYSTEMS
Development of hybrid bearing lubrication system with combination of standard type lubrication and magnetic flux field for earth atmosphere and space environment operation
[NASA-CASE-XNP-01641] c15 N71-22997
Lubrication for bearings by capillary action from oil reservoir of porous material
[NASA-CASE-XNP-03972] c15 N71-23048
Journal Bearings
[NASA-CASE-LEW-11076-2] c37 N74-32921
LUMINAIRES
Visual target luminaires for retrofire attitude control
[NASA-CASE-XMS-12158-1] c31 N69-27499
Development of ultraviolet resonance lamp with improved transmission of radiation
[NASA-CASE-ARC-10030] c09 N71-12521
Lamp modulator for generating visual indication of presence and magnitude of signal
[NASA-CASE-KSC-10565] c09 N72-25250
Electrodeless lamp circuit driven by induction
[NASA-CASE-MFS-21214-1] c09 N73-30181
Uniform variable light source
[NASA-CASE-NPO-11429-1] c74 N77-21941
LUMINOSITY
Mechanism for measuring nanosecond time differences between luminous events using streak camera
[NASA-CASE-XLA-01987] c23 N71-23976
LUMINOUS INTENSITY
Filter arrangement for controlling light intensity in motion picture camera used in optical pyrometry
[NASA-CASE-XLA-00062] c14 N70-33254
Development of star intensity measuring system which minimizes effects of outside interference
[NASA-CASE-XNP-06510] c14 N71-23797
Continuous plasma laser --- method and apparatus for producing intense, coherent, monochromatic light from low temperature plasma
[NASA-CASE-XNP-04167-3] c36 N77-19416
Solar cell assembly --- for use under high intensity illumination
[NASA-CASE-LEW-11549-1] c44 N77-19571
Compact, high intensity arc lamp with internal magnetic field producing means
[NASA-CASE-NPO-11510-1] c33 N77-21315
LUNAR BASES
Development and characteristics of natural circulation radiator for use with nuclear power plants installed in lunar space stations
[NASA-CASE-XHQ-03673] c33 N71-29046
LUNAR COMMUNICATION
Conversion system for transforming slow scan rate of Apollo TV camera on moon to fast scan of commercial TV
[NASA-CASE-XMS-07168] c07 N71-11300
Three transceiver lunar emergency system to relay voice communication of astronaut
[NASA-CASE-MFS-21042] c07 N72-25171
LUNAR COMPOSITION
Development and characteristics of pentrometer for measuring physical properties of lunar surface
[NASA-CASE-XLA-00934] c14 N71-22765
LUNAR EXPLORATION
Backpack carrier with retractable legs suitable for lunar exploration and convertible to rescue vehicle
[NASA-CASE-LAR-10056] c05 N71-12351
Development and characteristics of pentrometer for measuring physical properties of lunar surface
[NASA-CASE-XLA-00934] c14 N71-22765
Lightweight propulsion unit for movement of personnel and equipment across lunar surface
[NASA-CASE-MFS-20130] c28 N71-27585
Three transceiver lunar emergency system to relay voice communication of astronaut
[NASA-CASE-MFS-21042] c07 N72-25171
LUNAR GRAVITATION
Apparatus for training astronaut crews to perform on simulated lunar surface under conditions of lunar gravity
[NASA-CASE-XMS-04798] c11 N71-21474
LUNAR GRAVITY SIMULATOR
Lunar and planetary gravity simulator to test vehicular response to landing
[NASA-CASE-XLA-00493] c11 N70-34786

LUNAR LANDING
Lunar landing flight research vehicle
[NASA-CASE-XFR-00929] c31 N70-34966
LUNAR LOGISTICS
Lightweight propulsion unit for movement of personnel and equipment across lunar surface
[NASA-CASE-MFS-20130] c28 N71-27585
LUNAR ROCKS
Impact bit for cutting, collecting, and storing samples such as lunar rock cuttings
[NASA-CASE-XNP-01412] c15 N70-42034
LUNAR SOIL
Development of device for separating, collecting, and viewing soil particles
[NASA-CASE-XNP-09770] c15 N71-20440
Device which separates and screens particles of soil samples for vidicon viewing in vacuum and reduced gravity environments
[NASA-CASE-XNP-09770-3] c11 N71-27036
Portable penetrometer for analyzing soil characteristics
[NASA-CASE-MFS-20774] c14 N73-19420
Method for obtaining oxygen from lunar or similar soil
[NASA-CASE-MSC-12408-1] c46 N74-13011
LUNAR SURFACE VEHICLES
Resilient vehicle wheel for lunar surface travel
[NASA-CASE-MFS-20400] c31 N71-18611
Resilient wheel design with woven wire tire and abrasive treads for lunar surface vehicles
[NASA-CASE-MFS-13929] c15 N71-27091
LUNGS
Piston device for producing known constant positive pressure within lungs by using thoracic muscles
[NASA-CASE-XMS-01615] c05 N70-41329

M

MACHINE TOOLS
Rotary impact-type rock drill for recovering rock cuttings
[NASA-CASE-XNP-07478] c14 N69-21923
Description of protective device for providing safe operating conditions around work piece in machine or metal working tool
[NASA-CASE-XLE-01092] c15 N71-22797
Description of device for aligning stacked sheets of paper for repetitive cutting
[NASA-CASE-XMS-04178] c15 N71-22798
Development and characteristics of frusto-conical die nib for extrusion of refractory metals
[NASA-CASE-XLE-06773] c15 N71-23817
Design and development of layout tool for machine shop use to locate point in precise reference to straight or bowed reference edge
[NASA-CASE-FRC-10005] c15 N71-26145
Optical gauging system for monitoring machine tool alignment
[NASA-CASE-XAC-09489-1] c15 N71-26673
Caterpillar micropositioner for positioning machine tools adjacent to workpiece
[NASA-CASE-GSC-10780-1] c14 N72-16283
Geneva mechanism --- including star wheel and driver
[NASA-CASE-NPO-13281-1] c37 N75-13266
Zero torque gear head wrench
[NASA-CASE-NPO-13059-1] c37 N76-20480
Precision alinement apparatus for cutting a workpiece
[NASA-CASE-LAR-11658-1] c37 N77-14478
Adjustable chamfering tool
[NASA-CASE-NPO-10857-1] c37 N77-22478
MACHINERY
Design of mechanical device for stirring several test tubes simultaneously
[NASA-CASE-XAC-06956] c15 N71-21177
Precipitation detector and mechanism for stopping and restarting machinery at initiation and cessation of rain
[NASA-CASE-XLA-02619] c10 N71-26334
Apparatus for forming drive belts
[NASA-CASE-NPO-13205-1] c31 N74-32917
MACHINING
Laser machining device with dielectric functioning as beam waveguide for mechanical and medical applications
[NASA-CASE-HQN-10541-2] c15 N71-27135
Lathe tool and holder combination for machining resin impregnated fiberglass cloth laminates
[NASA-CASE-XLA-10470] c15 N72-21489
Drilled ball bearing with a one piece anti-tipping cage assembly
[NASA-CASE-LEW-11925-1] c37 N75-31446
MAGNESIUM
Chemical spot test for identifying magnesium or magnesium alloys used in aerospace applications
[NASA-CASE-LAR-10953-1] c17 N73-27446
MAGNESIUM ALLOYS
Procedure for bonding polytetrafluoroethylene thermal protective sleeves to magnesium alloy conical shell components with different thermal coefficients
[NASA-CASE-XLA-01262] c15 N71-21404
Chemical spot test for identifying magnesium or magnesium alloys used in aerospace applications
[NASA-CASE-LAR-10953-1] c17 N73-27446
MAGNESIUM OXIDES
Method for determining presence and type of OH in MgO
[NASA-CASE-NPO-10774] c06 N72-17095
MAGNET COILS
Improved alternator with windings of superconducting materials acting as permanent magnet
[NASA-CASE-XLE-02824] c03 N69-39890
Relay circuit breaker with magnetic latching to provide conductive and nonconductive paths for current devices
[NASA-CASE-MSC-11277] c09 N71-29008
MAGNETIC CHARGE DENSITY
Ion engine with magnetic circuit for optimal discharge
[NASA-CASE-XLE-01124] c28 N71-14043
MAGNETIC CIRCUITS
Ion engine with magnetic circuit for optimal discharge
[NASA-CASE-XLE-01124] c28 N71-14043
MAGNETIC COILS
Time division multiplexer with magnetic latching relays
[NASA-CASE-XNP-00431] c09 N70-38998
Linear magnetic braking system with nonuniformly wrapped primary coil producing constant braking force on secondary coil
[NASA-CASE-XLE-05079] c15 N71-17652
Electroexplosive safe-arm initiator using electric driven electromagnetic coils and magnets to align charge
[NASA-CASE-LAR-10372] c09 N71-18599
Magnifying image intensifier
[NASA-CASE-GSC-12010-1] c33 N76-23482
Independent gain and bandwidth control of a traveling wave maser
[NASA-CASE-NPO-13801-1] c36 N76-31514
MAGNETIC CONTROL
Magnetically opened diaphragm design with camera shutter and expansion tube applications
[NASA-CASE-XLA-03660] c15 N71-21060
Magnetically controlled plasma accelerator capable of ignition in low density gaseous environment
[NASA-CASE-XLA-00327] c25 N71-29184
Axially and radially controllable magnetic bearing
[NASA-CASE-GSC-11551-1] c37 N76-18459
Magnetic bearing system
[NASA-CASE-GSC-11978-1] c37 N77-17464
MAGNETIC CORES
Variable frequency magnetic coupled multivibrator with temperature compensated frequency control circuit
[NASA-CASE-XGS-00458] c09 N70-38604
Variable frequency magnetic coupled multivibrator with output signal of constant amplitude and waveform
[NASA-CASE-XGS-00131] c09 N70-38995
Electronic counter circuit utilizing magnetic core and low power consumption
[NASA-CASE-XNP-08836] c09 N71-12515
Pulsed magnetic core memory element with blocking oscillator feedback for interrogation without loss of digital information
[NASA-CASE-XGS-03303] c08 N71-18595
Describing magnetic core current switching device for steering bipolar current pulses to memory units
[NASA-CASE-NPO-10201] c08 N71-18694

Reliable magnetic core circuit apparatus with application in selection matrices for digital memories
[NASA-CASE-XNP-01318] c10 N71-23033
Magnetic current regulator for saturable core transformer
[NASA-CASE-ERC-10075] c09 N71-24800
Power switch with transfluxor type magnetic core
[NASA-CASE-NPO-10242] c09 N71-24803
Unsaturating magnetic core transformer design with warning signal for electrical power processing equipment
[NASA-CASE-ERC-10125] c09 N71-24893
Temperature sensitive magnetometer with pulsating thermally cycled magnetic core
[NASA-CASE-XAC-03740] c14 N71-26135
Digital magnetic core memory with sensing amplifier circuits
[NASA-CASE-XNP-01012] c08 N71-28925
Saturable magnetic core and signal detection for indicating impending saturation
[NASA-CASE-ERC-10089] c23 N72-17747
Commutator for steering precisely controlled bidirectional currents through numerous loads by use of magnetic core shift registers
[NASA-CASE-NPO-10743] c08 N72-21199
Banded transformer cores
[NASA-CASE-NPO-11966-1] c33 N74-17928

MAGNETIC DIPOLES
Torquemeter for determining magnitude of torque generated by interaction of magnetic dipole between test specimen and ambient magnetic field
[NASA-CASE-XGS-01013] c14 N71-23725

MAGNETIC DISKS
Device for removing plastic dust cover from digital computer disk packs for inspection and cleaning
[NASA-CASE-LAR-10590-1] c15 N70-26819

MAGNETIC FIELD CONFIGURATIONS
Mass spectrometer with magnetic pole pieces providing the magnetic fields for both the magnetic sector and an ion-type vacuum pump
[NASA-CASE-NPO-13663-1] c35 N77-14406

MAGNETIC FIELD INVERSIONS
Magnifying image intensifier
[NASA-CASE-GSC-12010-1] c33 N76-23482

MAGNETIC FIELDS
Magnetically diffused radial electric arc heater
[NASA-CASE-XLA-00330] c33 N70-34540
Method and apparatus for communicating through ionized layer of gases surrounding spacecraft during reentry into planetary atmospheres
[NASA-CASE-XLA-01127] c07 N70-41372
Venting device for liquid propellant storage tank using magnetic field to separate liquid and gaseous phases
[NASA-CASE-XLE-01449] c15 N70-41646
Ion engine with magnetic circuit for optimal discharge
[NASA-CASE-XLE-01124] c28 N71-14043
Development of wide range linear fluxgate magnetometer
[NASA-CASE-XGS-01587] c14 N71-15962
Magnetic element position sensing device, using misaligned electromagnets
[NASA-CASE-XGS-07514] c23 N71-16099
Development of non-magnetic indexing device for orienting magnetic flux sensing instrument in magnetic field without generation of detrimental magnetic fields
[NASA-CASE-XGS-02422] c15 N71-21529
Negation of magnetic fields produced by thin waferlike circuit elements in space vehicles
[NASA-CASE-XGS-03390] c03 N71-23187
Torquemeter for determining magnitude of torque generated by interaction of magnetic dipole between test specimen and ambient magnetic field
[NASA-CASE-XGS-01013] c14 N71-23725
Fluxgate magnetometer for measuring magnetic field along two axes using one sensor
[NASA-CASE-GSC-10441-1] c14 N71-27325
Segmented superconducting magnet producing staggered magnetic field and suitable for broadband traveling wave masers
[NASA-CASE-XGS-10518] c16 N71-28554
Magnetic method for detection of aircraft position relative to runway
[NASA-CASE-ARC-10179-1] c21 N72-22619
Radial magnetic field for ion thruster
[NASA-CASE-LEW-10770-1] c28 N72-22770
Automatic shunting of ion thrustor magnetic field when thrustor is not operating
[NASA-CASE-LEW-10835-1] c28 N72-22771
Apparatus for determining distance to lighting strokes from single station by magnetic and electric field sensing antennas
[NASA-CASE-KSC-10698] c07 N73-20175
Superconducting magnetic field trapping device for producing magnetic field in air
[NASA-CASE-XNP-01185] c26 N73-28710
Electron beam controller --- using magnetic field to refocus spent electron beam in microwave oscillator tube
[NASA-CASE-LEW-11617-1] c33 N74-10195
Magnetometer using superconducting rotating body
[NASA-CASE-NPO-13388-1] c35 N76-16390
Atomic hydrogen storage method and apparatus --- in strong magnetic fields
[NASA-CASE-LEW-12081-1] c28 N76-22399
Magnetic heat pumping
[NASA-CASE-LEW-12508-1] c34 N77-15343
Compact, high intensity arc lamp with internal magnetic field producing means
[NASA-CASE-NPO-11510-1] c33 N77-21315

MAGNETIC FLUX
Excitation and detection circuitry for flux responsive magnetic head
[NASA-CASE-XNP-04183] c09 N69-24329
Cryogenic flux-gated magnetometer using superconductors
[NASA-CASE-XAC-02407] c14 N69-27423
Flux gate magnetometer with toroidal gating coil and solenoidal output coil for signal modulation or amplification
[NASA-CASE-XGS-01881] c09 N70-40123
Development of hybrid bearing lubrication system with combination of standard type lubrication and magnetic flux field for earth atmosphere and space environment operation
[NASA-CASE-XNP-01641] c15 N71-22997
Magnetic current regulator for saturable core transformer
[NASA-CASE-ERC-10075] c09 N71-24800
Magnetic flux pump for changing intensity of magnetic fields
[NASA-CASE-XNP-01187] c15 N73-28516
Method for increasing intensity of magnetic field by transferring flux
[NASA-CASE-XNP-01188] c15 N73-32361
Magnetic bearing --- for supplying magnetic fluxes
[NASA-CASE-GSC-11079-1] c37 N75-18574

MAGNETIC FORMING
Portable magnetomotive hammer for metal working
[NASA-CASE-XNP-03793] c15 N71-24833
Method and apparatus for portable high precision magnetomotive bulging, constricting, and joining of large diameter metal tubes
[NASA-CASE-XNP-05114-3] c15 N71-24865

MAGNETIC INDUCTION
Continuous operation, single phased, induction plasma accelerator producing supersonic speeds
[NASA-CASE-XLA-01354] c25 N70-36946
Automatic power supply circuit design for driving inductive loads and minimizing power consumption including solenoid example
[NASA-CASE-NPO-10716] c09 N71-24892
Double-induction variable speed system for constant-frequency electrical power generation
[NASA-CASE-ERC-10065] c09 N71-27364
Microwave generator using Gunn effect for magnetic tuning
[NASA-CASE-NPO-12106] c09 N73-15235
High speed shutter --- electrically actuated ribbon loop for shuttering optical or fluid passageways
[NASA-CASE-ARC-10516-1] c70 N74-21300

MAGNETIC LENSES
Quadrupole mass spectrometer using noise spectrum for ion separation and identification
[NASA-CASE-XNP-04231] c14 N73-32325

MAGNETIC MATERIALS
Low density and low viscosity magnetic propellant for use under zero gravity conditions
[NASA-CASE-XLE-01512] c12 N70-40124

MAGNETIC MEASUREMENT
Cryogenic flux-gated magnetometer using superconductors

[NASA-CASE-XAC-02407] c14 N69-27423
Development of wide range linear fluxgate magnetometer
[NASA-CASE-XGS-01587] c14 N71-15962
Active RC filter networks and amplifiers for deep space magnetic field measurement
[NASA-CASE-XAC-05462-2] c10 N72-17171
Magnetometer using superconducting rotating body
[NASA-CASE-NPO-13388-1] c35 N76-16390
MAGNETIC POLES
Design of magnetohydrodynamic induction machine with end poles which produce compensating magnetic fields
[NASA-CASE-XNP-07481] c25 N69-21929
Mass spectrometer with magnetic pole pieces providing the magnetic fields for both the magnetic sector and an ion-type vacuum pump
[NASA-CASE-NPO-13663-1] c35 N77-14406
MAGNETIC PUMPING
Magnetic flux pump for changing intensity of magnetic fields
[NASA-CASE-XNP-01187] c15 N73-28516
Method for increasing intensity of magnetic field by transferring flux
[NASA-CASE-XNP-01188] c15 N73-32361
Magnetocaloric pump --- for cryogenic fluids
[NASA-CASE-LEW-11672-1] c37 N74-27904
Magnetic heat pumping
[NASA-CASE-LEW-12508-2] c34 N77-32435
MAGNETIC RECORDING
Development of data storage system for storing digital data in high density format on magnetic tape
[NASA-CASE-XNP-02778] c08 N71-22710
Magnetic recording head composed of ferrite core coated with thin film of aluminum-iron-silicon alloy
[NASA-CASE-GSC-10097-1] c08 N71-27210
MAGNETIC SIGNALS
Plural recorder system which limits signal recording to signals of sufficient interest
[NASA-CASE-XMS-06949] c09 N69-21467
MAGNETIC STORAGE
Nondestructive interrogating and state changing circuit for binary magnetic storage elements
[NASA-CASE-XGS-00174] c08 N70-34743
Magnetic matrix memory system for nondestructive reading of information contained in matrix
[NASA-CASE-XMF-05835] c08 N71-12504
Pulse duration control device for driving slow response time loads in selected sequence including switching and delay circuits and magnetic storage
[NASA-CASE-XGS-04224] c10 N71-26418
Redundant memory for enhanced reliability of digital data processing system
[NASA-CASE-GSC-10564] c10 N71-29135
Momentum wheel design for spacecraft attitude control and magnetic drum and head system for data storage
[NASA-CASE-NPO-11481] c21 N73-13644
MAGNETIC SUSPENSION
Magnetic suspension and pointing system
[NASA-CASE-LAR-11889-1] c19 N76-18227
MAGNETIC SWITCHING
Power switch with transfluxor type magnetic core
[NASA-CASE-NPO-10242] c09 N71-24803
Design and development of multistage current steering switch with inductively coupled magnetic cores
[NASA-CASE-XNP-08567] c09 N71-26000
MAGNETIC TAPE TRANSPORTS
Reel safety brake
[NASA-CASE-GSC-11960-1] c37 N77-14479
MAGNETIC TAPES
Tape cartridge with high capacity storage of endless-loop magnetic tape
[NASA-CASE-XGS-00769] c14 N70-41647
Endless loop tape transport mechanism for driving and tensioning recording medium in magnetic tape recorder
[NASA-CASE-XGS-01223] c07 N71-10609
Development of low friction magnetic recording tape
[NASA-CASE-XGS-00373] c23 N71-15978
System for recording and reproducing PCM data from data stored on magnetic tape
[NASA-CASE-XGS-01021] c08 N71-21042
Kinetic and static friction force measurement between magnetic tape and magnetic head surfaces
[NASA-CASE-XNP-08680] c14 N71-22995
Technique for recovery of voice data from heat damaged magnetic tape
[NASA-CASE-MSC-14219-1] c32 N74-27612
Magnetic tape head function switching system
[NASA-CASE-GSC-11956-1] c35 N75-25134
Automatic character skew and spacing checking network --- of digital tape drive systems
[NASA-CASE-GSC-11925-1] c33 N76-18353
MAGNETIC TRANSDUCERS
A miniature implantable ultrasonic echosonometer
[NASA-CASE-AEC-11035-1] c52 N77-15621
MAGNETIZATION
Permanently magnetized ion engine casing construction for use in spacecraft propulsion systems
[NASA-CASE-XNP-06942] c28 N71-23293
MAGNETO-OPTICS
Thermomagnetic recording and magneto-optic playback system having constant intensity laser beam control
[NASA-CASE-NPO-11317-2] c36 N74-13205
MAGNETOHYDRODYNAMIC FLOW
Improving preformance of magnetoplasmadynamic arc rocket engine
[NASA-CASE-LEW-11180-1] c25 N73-25760
MAGNETOHYDRODYNAMIC GENERATORS
Design of magnetohydrodynamic induction machine with end poles which produce compensating magnetic fields
[NASA-CASE-XNP-07481] c25 N69-21929
Magnetohydrodynamic generator for mixing nonconductive gas and liquid metal mist to form slugs
[NASA-CASE-XLE-02083] c03 N69-39983
Thermoelectric power conversion by liquid metal flowing through magnetic field
[NASA-CASE-XNP-00644] c03 N70-36803
Crossed field MHD plasma generator-accelerator
[NASA-CASE-XLA-03374] c25 N71-15562
MAGNETOMETERS
Nonmagnetic thermal motor for magnetometer movement
[NASA-CASE-XAR-03786] c09 N69-21313
Cryogenic flux-gated magnetometer using superconductors
[NASA-CASE-XAC-02407] c14 N69-27423
Flux gate magnetometer with toroidal gating coil and solenoidal output coil for signal modulation or amplification
[NASA-CASE-XGS-01881] c09 N70-40123
Development of wide range linear fluxgate magnetometer
[NASA-CASE-XGS-01587] c14 N71-15962
Design and development of optically pumped resonance magnetometer for determining vectoral components in spatial coordinate system
[NASA-CASE-XGS-04879] c14 N71-20428
Temperature sensitive magnetometer with pulsating thermally cycled magnetic core
[NASA-CASE-XAC-03740] c14 N71-26135
Fluxgate magnetometer for measuring magnetic field along two axes using one sensor
[NASA-CASE-GSC-10441-1] c14 N71-27325
Hall effect magnetometer
[NASA-CASE-LEW-11632-2] c35 N75-13213
Magnetometer using superconducting rotating body
[NASA-CASE-NPO-13388-1] c35 N76-16390
Magnetic heading reference
[NASA-CASE-LAR-11387-1] c04 N76-20114
Actuator mechanism
[NASA-CASE-GSC-11883-2] c37 N77-15400
Magnetometer --- with an automatic scanning transducer
[NASA-CASE-LAR-11617-2] c35 N77-17430
Magnetic heading reference
[NASA-CASE-LAR-11387-2] c04 N77-19056
MAGNETRONS
Tuning arrangement for frequency control of magnetron-type electron discharge device
[NASA-CASE-XNP-09771] c09 N71-24841
MAGNETS
Magnetic electrical connectors for biomedical percutaneous implants
[NASA-CASE-KSC-11030-1] c52 N77-25772
MAGNIFICATION
Camera adapter design for image magnification

including lens and illuminator
[NASA-CASE-XMF-03844-1] c14 N71-26474
Passive type, magnifying scratch gage, force transducer
[NASA-CASE-LAR-10496-1] c14 N72-22437
MAGNITUDE
Torquemeter for determining magnitude of torque generated by interaction of magnetic dipole between test specimen and ambient magnetic field
[NASA-CASE-XGS-01013] c14 N71-23725
MAINTENANCE
Self testing and repairing computer comprising control and diagnostic unit and rollback points for error correction
[NASA-CASE-NPO-10567] c08 N71-24633
Development of process for bonding resinous body in cavities of honeycomb structures
[NASA-CASE-MSC-12357] c15 N73-12489
Method of repairing discontinuity in fiberglass structures
[NASA-CASE-LAR-10416-1] c24 N74-30001
MALFUNCTIONS
Aircraft instrument for indicating malfunctions during takeoff
[NASA-CASE-XIA-00100] c14 N70-36807
MANDRELS
Mandrel for shaping solid propellant rocket fuel into engine casing
[NASA-CASE-XLA-00304] c27 N70-34783
Rotating, multisided mandrel for fabricating gored inflatable spacecraft
[NASA-CASE-XLA-04143] c15 N71-17687
Method of making solid propellant rocket motor having reliable high altitude capabilities, long shelf life, and capable of firing with nozzle closure with foamed plastic permanent mandrel
[NASA-CASE-XLA-04126] c28 N71-26779
MANIFOLDS
Injector manifold assembly for bipropellant rocket engines providing for fuel propellant to serve as coolant
[NASA-CASE-XMF-00148] c28 N70-38710
MANIPULATORS
Manipulator for remote handling in zero gravity environment
[NASA-CASE-MFS-14405] c15 N72-28495
Orthotic arm joint --- for use in mechanical arms
[NASA-CASE-MFS-21611-1] c54 N75-12616
Variable ratio mixed-mode bilateral master-slave control system for shuttle remote manipulator system
[NASA-CASE-MSC-14245-1] c18 N75-27041
Cooperative multiaxis sensor for teleoperation of article manipulating apparatus
[NASA-CASE-NPO-13386-1] c54 N75-27758
Remotely operable articulated manipulator
[NASA-CASE-MFS-22707-1] c37 N76-15457
Remote manipulator system
[NASA-CASE-MFS-22022-1] c37 N76-15460
Wrist joint assembly
[NASA-CASE-MFS-23311-1] c37 N76-28554
An improved controller arm for a remotely related slave arm
[NASA-CASE-ARC-11052-1] c54 N77-30751
Anthropomorphic master/slave manipulator system
[NASA-CASE-ARC-10756-1] c54 N77-32721
Compact artificial hand
[NASA-CASE-NPO-13906-1] c54 N77-32723
MANNED ORBITAL LABORATORIES
Artificial gravity system for simulating self-locomotion capability of astronauts in rotating environments
[NASA-CASE-XLA-03127] c11 N71-10776
MANNED ORBITAL RESEARCH LABORATORIES
Manned space station collapsible for launching and self-erectable in orbit
[NASA-CASE-XLA-00678] c31 N70-34296
Radial module manned space station with artificial gravity environment
[NASA-CASE-XMS-01906] c31 N70-41373
MANNED SPACE FLIGHT
Three-port transfer valve with one port open continuously suitable for manned space flight
[NASA-CASE-XAC-01158] c15 N71-23051
Device for removing air from water for use in life support systems in manned space flight
[NASA-CASE-XIA-8914] c15 N73-12492
MANNED SPACECRAFT
Manned space capsule configuration for orbital flight and atmospheric reentry
[NASA-CASE-XLA-00149] c31 N70-37938
Delta winged, manned reentry vehicle capable of horizontal glide landing at low speeds
[NASA-CASE-XLA-00241] c31 N70-37986
Parachute system for lowering manned spacecraft from post-reentry to ocean landing
[NASA-CASE-XLA-00195] c02 N70-38009
Design and configuration of manned space capsule
[NASA-CASE-XLA-01332] c31 N71-15664
Development of method for producing artificial gravity in manned spacecraft
[NASA-CASE-XNP-02595] c31 N71-21881
Chlorine generator for purifying water in life support systems of manned spacecraft
[NASA-CASE-XLA-08913] c14 N71-28933
Collapsible couch system for manned space vehicles
[NASA-CASE-MSC-13140] c05 N72-11085
Spacecraft with artificial gravity and earthlike atmosphere
[NASA-CASE-LEW-11101-1] c31 N73-32750
MANOMETERS
Magnetically centered liquid column float
[NASA-CASE-XAC-00030] c14 N70-34820
Absolute pressure measuring device for measuring gas density level in high vacuum range
[NASA-CASE-LAR-10000] c14 N73-30394
MANUAL CONTROL
Multiple circuit switch apparatus requiring minimum hand and eye movement by operator
[NASA-CASE-XAC-03777] c10 N71-15909
Manual control mechanism for adjusting control rod to null position
[NASA-CASE-XLA-01808] c15 N71-20740
Manually activated heat pump for mechanically converting human operator output into heat energy
[NASA-CASE-NPO-10677] c05 N72-11084
Development of flight simulator system to show position of joystick displacement
[NASA-CASE-NPO-11497] c08 N73-25206
Solid state controller three axes controller
[NASA-CASE-MSC-12394-1] c08 N74-10942
G-load measuring and indicator apparatus
[NASA-CASE-ARC-10806-1] c35 N75-29381
MANUFACTURING
Selective gold diffusion on monolithic silicon chips for switching and nonswitching amplifier devices and circuits and linear and digital logic circuits
[NASA-CASE-REC-10072] c09 N70-11148
Standard coupling design for mass production
[NASA-CASE-XMS-02532] c15 N70-41808
Method for making screen with unlimited fineness of mesh and screen thickness
[NASA-CASE-XLE-00953] c15 N71-15966
Describing apparatus for manufacturing operations in low and zero gravity environments of orbital space flight
[NASA-CASE-MFS-20410] c15 N71-19214
Manufacture of fluid containers from fused coated polyester sheets having resealable septum
[NASA-CASE-NPO-10123] c15 N71-24835
Method of making solid propellant rocket motor having reliable high altitude capabilities, long shelf life, and capable of firing with nozzle closure with foamed plastic permanent mandrel
[NASA-CASE-XLA-04126] c28 N71-26779
Shielded flat conductor cable fabricated by electroless and electrolytic plating
[NASA-CASE-MFS-13687] c09 N71-28691
Production method for manufacturing porous tungsten bodies from tungsten powder particles
[NASA-CASE-XNP-04339] c17 N71-29137
Method of making porous conductive supports for electrodes --- by electroforming and stacking nickel foils
[NASA-CASE-GSC-11367-1] c44 N74-19692
Apparatus for forming drive belts
[NASA-CASE-NPO-13205-1] c31 N74-32917
Bonding method in the manufacture of continuous regression rate sensor devices
[NASA-CASE-LAR-10337-1] c24 N75-30260
Process for fabricating SiC semiconductor devices
[NASA-CASE-LEW-12094-1] c76 N76-25049

Solar hydrogen generator
[NASA-CASE-LAR-11361-1] c44 N77-22607
Method of forming shrink-fit compression seal
[NASA-CASE-LAR-11563-1] c37 N77-23482
Method for making a hot wire anemometer and product thereof
[NASA-CASE-ARC-10900-1] c35 N77-24454
MAPPING
Solid state device for mapping flux and power in nuclear reactor cores
[NASA-CASE-XLE-00301] c14 N70-36808
Design and development of random function tracer for obtaining coordinates of points on contour maps
[NASA-CASE-XLA-01401] c15 N71-21179
Spacecraft transponder and ground station radar system for mapping planetary surfaces
[NASA-CASE-NPO-11001] c07 N72-21118
MAPS
Orbital and entry tracking accessory for globes --- to provide range requirements for reentry vehicles to any landing site
[NASA-CASE-LAR-10626-1] c19 N74-21015
Optical process for producing classification maps from multispectral data
[NASA-CASE-MSC-14472-1] c43 N77-10584
MASERS
Segmented superconducting magnet producing staggered magnetic field and suitable for broadband traveling wave masers
[NASA-CASE-XGS-10518] c16 N71-28554
Traveling wave maser for operation in 7 to 20 GHz frequency range
[NASA-CASE-NPO-11437] c16 N72-28521
Reflected-wave maser --- low noise amplifier
[NASA-CASE-NPO-13490-1] c36 N76-31512
Multistation refrigeration system
[NASA-CASE-NPO-13839-1] c31 N77-15219
MASKING
Reusable masking boot for chemical machining operations
[NASA-CASE-XNP-02092] c15 N70-42033
Composition and process for improving definition of resin masks used in chemical etching
[NASA-CASE-XGS-04993] c14 N71-17574
MASS
Apparatus for measuring human body mass in zero or reduced gravity environment
[NASA-CASE-XMS-03371] c05 N70-42000
Tuned damped vibration absorber for mass vibrating in more than one degree of freedom for use with wind tunnel models
[NASA-CASE-LAR-10083-1] c15 N71-27006
Fluid mass sensor for a zero gravity environment
[NASA-CASE-MSC-14653-1] c35 N77-19385
MASS BALANCE
Two plane balance for simultaneous measurements of multiple forces
[NASA-CASE-XAC-00073] c14 N70-34813
Control system for pressure balance device used in calibrating pressure gages
[NASA-CASE-XNP-04134] c14 N71-23755
MASS DISTRIBUTION
Electronic recording system for spatial mass distribution of liquid rocket propellant droplets or vapors ejected from high velocity nozzles
[NASA-CASE-NPO-10185] c10 N71-26339

MASS FLOW
Rocket engine injector orifice to accommodate changes in density, velocity, and pressure, thereby maintaining constant mass flow rate of propellant into rocket combustion chamber
[NASA-CASE-XLE-03157] c28 N71-24736
Mass flow meter containing beta source for measuring nonpolar liquid flow
[NASA-CASE-MFS-20485] c14 N72-11365
Generation of high temperature, high mass flow, and high Reynolds number air at hypersonic speeds
[NASA-CASE-LAR-10578-1] c12 N73-25262
MASS SPECTROMETERS
Analytical photoionization mass spectrometer with argon gas filter between light source and monochrometer
[NASA-CASE-LAR-10180-1] c06 N71-13461
Design and characteristics of time of flight mass spectrometer to measure or analyze gases at low pressures and time of flight of single gas molecule
[NASA-CASE-XNP-01056] c14 N71-23041
Ion microprobe mass spectrometer with cooled electrode target for analyzing traces of fluids
[NASA-CASE-ERC-10014] c14 N71-28863
Test chambers with orifice and helium mass spectrometer for detecting leak rate of encapsulated semiconductor devices
[NASA-CASE-ERC-10150] c14 N71-28992
High speed scanner for measuring mass of preselected gases at high sampling rate
[NASA-CASE-LAR-10766-1] c14 N72-21432
Apparatus for analyzing gas samples in containers including vacuum chamber, mass spectrometer, and gas chromatography
[NASA-CASE-GSC-10903-1] c14 N73-12444
Quadrupole mass spectrometer using noise spectrum for ion separation and identification
[NASA-CASE-XNP-04231] c14 N73-32425
Fast scan control for deflection type mass spectrometers
[NASA-CASE-LAR-11428-1] c35 N74-34857
Mass spectrometer with magnetic pole pieces providing the magnetic fields for both the magnetic sector and an ion-type vacuum pump
[NASA-CASE-NPO-13663-1] c35 N77-14406
Method for fabricating a mass spectrometer inlet leak
[NASA-CASE-GSC-12077-1] c35 N77-24455
MASS SPECTROSCOPY
Moving particle composition analyzer
[NASA-CASE-GSC-11889-1] c35 N76-16393
Fluid sampling device
[NASA-CASE-GSC-12143-1] c35 N77-32456
MATERIAL ABSORPTION
Describing sorption vacuum trap having housing with group of reentrant wall portions projecting into internal gas-pervious container filled with gas and vapor sorbent material
[NASA-CASE-XER-09519] c14 N71-18483
MATERIALS HANDLING
Two component valve assembly for cryogenic liquid transfer regulation
[NASA-CASE-XLE-00397] c15 N70-36492
Catalyst bed element removing tool
[NASA-CASE-XFR-00811] c15 N70-36901
Air bearings for near frictionless transfer of loads from one body to another
[NASA-CASE-XMF-01887] c15 N71-10617
Quick-release coupling for fueling rocket vehicles with cryogenic propellants
[NASA-CASE-XKS-01985] c15 N71-10782
Method and apparatus for removing plastic insulation from wire using cryogenic equipment
[NASA-CASE-MFS-10340] c15 N71-17628
Fluid transferring system design for purging toxic, corrosive, or noxious fluids and fumes from materials handling equipment for cleansing and accident prevention
[NASA-CASE-XMS-01905] c12 N71-21089
Description of method for making homogeneous foamed materials in weightless environment using materials having different physical properties
[NASA-CASE-XMF-09902] c15 N72-11387
Design and characteristics of mechanically extended and telescoping boom on crane assembly
[NASA-CASE-NPO-11118] c03 N72-25021
Design and development of device to prevent clogging in hoppers containing particulate materials
[NASA-CASE-LAR-10961-1] c15 N73-12496
Development of ultrasonic radiation equipment for removing material from host surface and vacuum apparatus for recovery of material
[NASA-CASE-NPO-11213] c15 N73-20514
Development and characteristics of system for skin packaging articles using thermoplastic film heating and vacuum operated equipment
[NASA-CASE-MFS-20855] c15 N73-27405
Apparatus for inserting and removing specimens from high temperature vacuum furnaces
[NASA-CASE-LAR-10841-1] c31 N74-27900
Deployable flexible tunnel
[NASA-CASE-MFS-22636-1] c37 N76-22540

MATERIALS RECOVERY
Pyrolysis system and process --- recovering energy from solid wastes containing hydrocarbons
[NASA-CASE-MSC-12669-1] c44 N76-16621
Automated system for identifying traces of organic chemical compounds in aqueous solutions
[NASA-CASE-NPO-13063-1] c25 N76-18245
MATERIALS SCIENCE
Flammability test chamber for testing materials in certain predetermined environments
[NASA-CASE-KSC-10126] c11 N71-24985
Device for measuring thermoelectric properties of materials under high pressure
[NASA-CASE-NPO-11749] c14 N73-28486
MATERIALS TESTS
Development of equipment for measuring thermal shock resistance of thin discs of material
[NASA-CASE-XLE-02024] c14 N71-22964
Multisample test chamber for exposing materials to X rays, temperature change, and gaseous conditions and determination of material effects
[NASA-CASE-XMS-02930] c11 N71-23042
Automated ball rebound resilience test equipment for determining viscoelastic properties of polymers
[NASA-CASE-XLA-08254] c14 N71-26161
Hermetic sealing device for ends of tubular bodies during materials testing operations
[NASA-CASE-NPO-10431] c15 N71-29132
Development of apparatus for testing burning rate and flammability of materials
[NASA-CASE-XMS-09690] c33 N72-25913
Multiaxes vibration device for making vibration tests along orthogonal axes of test specimen
[NASA-CASE-MFS-20242] c14 N73-19421
Material testing system with load sensor for applying and measuring cyclic tensile and compressive loads to test specimens
[NASA-CASE-MFS-20673] c14 N73-20476
MATHEMATICAL LOGIC
Logical function and circuit generator
[NASA-CASE-XLA-05099] c09 N73-13209
MATRICES (CIRCUITS)
Fabrication methods for matrices of solar cell submodules
[NASA-CASE-XNP-05821] c03 N71-11056
Magnetic matrix memory system for nondestructive reading of information contained in matrix
[NASA-CASE-XMF-05835] c08 N71-12504
Conductor for connecting parallel cells into submodules in series to form solar cell matrix
[NASA-CASE-NPO-10821] c03 N71-19545
Reliable magnetic core circuit apparatus with application in selection matrices for digital memories
[NASA-CASE-XNP-01318] c10 N71-23033
Serial digital decoder design with square circuit matrix and serial memory storage units
[NASA-CASE-NPO-10150] c08 N71-24650
Electrically connected matrix of discrete solar cell blanks
[NASA-CASE-NPO-10591] c03 N72-22041
MATTS (SYSTEMS)
Simulator for practicing the mating of an observer-controlled object with a target
[NASA-CASE-MFS-23052-2] c14 N77-18179
MCLEOD GAGES
Automatic recording McLeod gage with three electrodes and solenoid valve connection
[NASA-CASE-XLE-03280] c14 N71-23093
MEASURING INSTRUMENTS
Capacitance measuring device for determining flare accuracy on tapered tubes
[NASA-CASE-XMS-03495] c14 N69-39785
Characteristics and performance of electrical system to determine angular rotation
[NASA-CASE-XMF-00447] c14 N70-33179
Two plane balance for simultaneous measurements of multiple forces
[NASA-CASE-XAC-00073] c14 N70-34813
Parallel motion suspension device for measuring instruments
[NASA-CASE-XNP-01567] c15 N70-41310
Method and apparatus for measuring potentials in plasmas
[NASA-CASE-XLE-00821] c25 N71-15650
Transducer for measuring deflections from vibrating structures
[NASA-CASE-XLA-03135] c32 N71-16428
Gage for quality control of sealing surfaces of threaded boss
[NASA-CASE-XMF-04966] c14 N71-17658
Equipment for measuring partial water vapor pressure in gas tank
[NASA-CASE-XMS-01618] c14 N71-20741
Gauge for measuring quantity of liquid in spherical tank in reduced gravity
[NASA-CASE-XMS-06236] c14 N71-21007
Nonreuseable energy absorbing device comprising ring member with plurality of recesses, cutting members, and guide member mounted in each recess
[NASA-CASE-XMF-10040] c15 N71-22877
Ablation sensor for measuring surface ablation rate of material on vehicles entering earths atmosphere on entry into planetary atmospheres
[NASA-CASE-XLA-01791] c14 N71-22991
Test fixture for measuring moment of inertia of irregularly shaped body with multiple axes
[NASA-CASE-XGS-01023] c14 N71-22992
Electron beam deflection devices for measuring electric fields
[NASA-CASE-XMF-10289] c14 N71-23699
Device for measuring two orthogonal components of force with gallium flotation of measuring target for use in vacuum environments
[NASA-CASE-XAC-04885] c14 N71-23790
Gage for measuring internal angle of flare on end of tube
[NASA-CASE-XMF-04415] c14 N71-24693
Device utilizing RC rate generators for continuous slow speed measurement
[NASA-CASE-XMF-02966] c10 N71-24863
Solid state force measuring electromechanical transducers made of piezoresistive materials
[NASA-CASE-ERC-10088] c26 N71-25490
Design and development of layout tool for machine shop use to locate point in precise reference to straight or bowed reference edge
[NASA-CASE-FRC-10005] c15 N71-26145
Volume displacement transducer for leak detection in hermetically sealed semiconductor devices
[NASA-CASE-ERC-10033] c14 N71-26672
Deformation measuring apparatus with feedback control for arbitrarily shaped structures
[NASA-CASE-LAR-10098] c32 N71-26681
Foam insulation thickness measuring and injection device for spacecraft applications
[NASA-CASE-MFS-20261] c14 N71-27005
Resonant infrasonic gauging device for measuring liquid quantity in closed bladderless reservoir
[NASA-CASE-MSC-11847-1] c14 N72-11363
Measuring roll alignment of test body with respect to reference body
[NASA-CASE-GSC-10514-1] c14 N72-20379
Sensor for detecting and measuring energy, velocity and direction of travel of a cosmic dust particle
[NASA-CASE-GSC-10503-1] c14 N72-20381
Pumping and metering dual piston system and monitor for reaction chamber constituents
[NASA-CASE-GSC-10218-1] c15 N72-21465
Capacitive tank gaging device for monitoring one constituent of two phase fluid by sensing dielectric constant
[NASA-CASE-MFS-21629] c14 N72-22442
Development of mechanical device for measuring distance of point within sphere from surface of sphere
[NASA-CASE-XLA-06683] c14 N72-28436
Surface based altitude measuring system for accurately measuring altitude of airborne vehicle
[NASA-CASE-ERC-10412-1] c09 N73-12211
Instrument for measuring magnitude and direction of flow velocity in flow field
[NASA-CASE-LAR-10855-1] c14 N73-13415
Multiaxes vibration device for making vibration tests along orthogonal axes of test specimen
[NASA-CASE-MFS-20242] c14 N73-19421
Material testing system with load sensor for applying and measuring cyclic tensile and compressive loads to test specimens
[NASA-CASE-MFS-20673] c14 N73-20476
Development of droplet monitoring probe for use in analysis of droplet propagation in mixed-phase fluid stream

[NASA-CASE-NPO-10985] c14 N73-20478
Device for measuring thermoelectric properties of materials under high pressure
[NASA-CASE-NPO-11749] c14 N73-28486
Radio frequency source resistance measuring instruments of varied design
[NASA-CASE-NPO-11291-1] c14 N73-30388
Absolute pressure measuring device for measuring gas density level in high vacuum range
[NASA-CASE-LAR-10000] c14 N73-30394
Thin film analyzer utilizing holographic technigues
[NASA-CASE-MFS-20823-1] c16 N73-30476
Three-axis adjustable loading structure
[NASA-CASE-FRC-10051-1] c35 N74-13129
Thin film gauge --- for measuring convective heat transfer rates along test surfaces in wind tunnels
[NASA-CASE-NPO-10617-1] c35 N74-22095
Apparatus and method for processing Korotkov sounds --- for blood pressure measurement
[NASA-CASE-MSC-13999-1] c52 N74-26626
Electric field measuring and display system --- for cloud formations
[NASA-CASE-KSC-10731-1] c33 N74-27862
Device for measuring tensile forces
[NASA-CASE-MFS-21728-1] c35 N74-27865
Measuring probe position recorder
[NASA-CASE-LAR-10806-1] c35 N74-32877
Meter for use in detecting tension in straps having predetermined elastic characteristics
[NASA-CASE-MFS-22189-1] c35 N75-19615
Thrust measurement
[NASA-CASE-XMS-05731] c35 N75-29382
Apparatus for measuring a sorbate dispersed in a fluid stream
[NASA-CASE-ARC-10896-1] c34 N75-32389
Surface roughness measuring system
[NASA-CASE-NPO-13862-1] c32 N77-17325
Method and apparatus for measuring web material wound on a reel
[NASA-CASE-GSC-11902-1] c38 N77-17495
Lightning current waveform measuring system
[NASA-CASE-KSC-11018-1] c33 N77-21320
Optical instrument employing reticle having preselected visual response pattern formed thereon
[NASA-CASE-ARC-10976-1] c74 N77-22950
Direct reading inductance meter
[NASA-CASE-NPO-13792-1] c35 N77-32455

MECHANICAL DEVICES
Mechanical coordinate converter for use with spacecraft tracking antennas
[NASA-CASE-XNP-00614] c14 N70-36907
Load cell protection device using spring-loaded breakaway mechanism
[NASA-CASE-XMS-06782] c32 N71-15974
Design and development of satellite despin device
[NASA-CASE-XMF-08523] c31 N71-20396
Development of two force component measuring device
[NASA-CASE-XAC-04886-1] c14 N71-20439
Design, development, and characteristics of latching mechanism for operation in limited access areas
[NASA-CASE-XMS-03745] c15 N71-21076
Design of mechanical device for stirring several test tubes simultaneously
[NASA-CASE-XAC-06956] c15 N71-21177
Design and development of random function tracer for obtaining coordinates of points on contour maps
[NASA-CASE-XLA-01401] c15 N71-21179
Design and characteristics of device for closing canisters under high vacuum conditions
[NASA-CASE-XLA-01446] c15 N71-21528
Development of non-magnetic indexing device for orienting magnetic flux sensing instrument in magnetic field without generation of detrimental magnetic fields
[NASA-CASE-XGS-02422] c15 N71-21529
Design and development of module joint clamping device for application to solar array construction
[NASA-CASE-XNP-02341] c15 N71-21531
Hand controller operable about three respectively perpendicular axes and capable of actuating signal generators for attitude control devices
[NASA-CASE-XMS-07487] c15 N71-23255
Metal alloy bearing materials for space applications
[NASA-CASE-XLE-05033] c15 N71-23810
Mechanical actuator wherein linear motion changes to rotational motion
[NASA-CASE-XGS-04548] c15 N71-24045
Design and characteristics of device for showing amount of cable payed out from winch and load imposed
[NASA-CASE-MSC-12052-1] c15 N71-24599
Design and development of release mechanism for spacecraft components, releasable despin weights, and extensible gravity booms
[NASA-CASE-XGS-08718] c15 N71-24600
Apparatus for mechanically dispersing ultrafine metal powders subjected to shock waves
[NASA-CASE-XLE-04946] c17 N71-24911
Self lubricating gears and other mechanical parts having surface adapted to frictional contact
[NASA-CASE-MFS-14971] c15 N71-24984
Design and development of layout tool for machine shop use to locate point in precise reference to straight or bowed reference edge
[NASA-CASE-FRC-10005] c15 N71-26145
Design and development of linear actuator based on bimetallic spring expansion
[NASA-CASE-NPO-10637] c15 N72-12409
Characteristics of lightweight actuator for imparting linear motion using elongated output shaft
[NASA-CASE-NPO-11222] c15 N72-25456
Development of mechanical device for measuring distance of point within sphere from surface of sphere
[NASA-CASE-XLA-06683] c14 N72-28436
Development of thermal compensating structure which maintains uniform length with changes in temperature
[NASA-CASE-MFS-20433] c15 N72-28496
Development of mating flat surfaces to inhibit leakage of fluid around shafts
[NASA-CASE-XLE-10326-2] c15 N72-29488
Development of solar energy powered heliotrope assembly to orient solar array toward sun
[NASA-CASE-GSC-10945-1] c21 N72-31637
Design and construction of mechanical probe for determining if object is properly secured
[NASA-CASE-MFS-20760] c14 N72-33377
Development and characteristics of rotary actuator for use on spacecraft to deploy and support pivotal structures such as solar panels
[NASA-CASE-NPO-10680] c31 N73-14855
Collapsible support for antenna reflector applied to installation of spacecraft antennas
[NASA-CASE-NPO-11751] c07 N73-24176
Pneumatic foot pedal operated fluidic exercising device
[NASA-CASE-MSC-11561-1] c05 N73-32014
Mechanical exposure interlock device for preventing film overexposure in oscilloscope camera
[NASA-CASE-LAR-10319-1] c14 N73-32322
Reefing system
[NASA-CASE-LAR-10129-2] c37 N74-20063
Sprag solenoid brake --- development and operations of electrically controlled brake
[NASA-CASE-MFS-21846-1] c37 N74-26976
Solid medium thermal engine
[NASA-CASE-ARC-10461-1] c44 N74-33379
Automatic inoculating apparatus --- includes movable carraige, drive motor, and swabbing motor
[NASA-CASE-LAR-11074-1] c51 N75-13502
Clock setter
[NASA-CASE-LAR-11458-1] c35 N76-16392
Apparatus for positioning modular components on a vertical or overhead surface
[NASA-CASE-LAR-11465-1] c37 N76-21554
An artificial leg employing a mechanical energy storage device for hip disarticulation
[NASA-CASE-ARC-10916-1] c54 N76-26871
Wrist joint assembly
[NASA-CASE-MFS-23311-1] c37 N76-28554
Automatic multiple-sample applicator and electrophoresis apparatus
[NASA-CASE-ARC-10991-1] c25 N77-12157

Reel safety brake
[NASA-CASE-GSC-11960-1] c37 N77-14479
Adjustable chamfering tool
[NASA-CASE-NPO-10857-1] c37 N77-22478
Mechanical sequencer
[NASA-CASE-MSC-19536-1] c37 N77-22482
Combined docking and grasping device
[NASA-CASE-MFS-23088-1] c37 N77-23483
Locking mechanism for orthopedic braces
[NASA-CASE-GSC-12082-2] c52 N77-27694

MECHANICAL DRIVES
Hydraulic drive mechanism for leveling isolation platforms
[NASA-CASE-XMS-03252] c15 N71-10658
Antibacklash circuit for hydraulic drive system
[NASA-CASE-XNP-01020] c03 N71-12260
Precision stepping drive device using cam disk
[NASA-CASE-MFS-14772] c15 N71-17692
Incremental motion drive system applied to interferometer components
[NASA-CASE-XNP-08897] c15 N71-17694
Ratchet mechanism for high speed operation at reduced backlash
[NASA-CASE-MFS-12805] c15 N71-17805
Development of apparatus for automatically changing carriage speed of welding machine to obtain constant speed of torch along work surface
[NASA-CASE-XMF-07069] c15 N71-23815
Drive system for parabolic tracking antenna with reversible motion and minimal backlash
[NASA-CASE-NPO-10173] c15 N71-24696
Synchronous dc direct-drive system comprising multiple-loop hybrid control system controlling load directly connected to actuator
[NASA-CASE-GSC-10065-1] c10 N71-27136
Energy absorption device in high precision gear train for protection against damage to components caused by stop loads
[NASA-CASE-XNP-01848] c15 N71-28959
Automatic controlled drive mechanism for portable boring bar
[NASA-CASE-XLA-03661] c15 N71-33518
Rotary actuator for use in environments with no rolling and sliding friction
[NASA-CASE-NPO-10244] c15 N72-26371
Development and characteristics of rotary actuator for use on spacecraft to deploy and support pivotal structures such as solar panels
[NASA-CASE-NPO-10680] c31 N73-14855
Optically actuated two position mechanical mover
[NASA-CASE-NPO-13105-1] c37 N74-21060
Two speed drive system --- mechanical device for changing speed on rotating vehicle wheel
[NASA-CASE-MFS-20645-1] c37 N74-23070
Concentric differential gearing arrangement
[NASA-CASE-ARC-10462-1] c37 N74-27901
Geneva mechanism --- including star wheel and driver
[NASA-CASE-NPO-13281-1] c37 N75-13266
Mechanical thermal motor
[NASA-CASE-MFS-23062-1] c37 N77-12402
Mount for continuously orienting a collector dish in a system adapted to perform both diurnal and seasonal solar tracking
[NASA-CASE-MFS-23267-1] c35 N77-20401
Hydraulic drain means for servo-systems
[NASA-CASE-NPO-10316-1] c37 N77-22479
Mechanical sequencer
[NASA-CASE-MSC-19536-1] c37 N77-22482

MECHANICAL ENGINEERING
Manual actuator --- for spacecraft exercising machines
[NASA-CASE-MFS-21481-1] c37 N74-18127
Actuator mechanism
[NASA-CASE-GSC-11883-2] c37 N77-15400
Apparatus for automatically spraying a coating material
[NASA-CASE-MFS-23506-2] c37 N77-20441
Shaft seal assembly for high speed and high pressure applications
[NASA-CASE-LEW-11873-1] c37 N77-27404

MECHANICAL MEASUREMENT
Air brake device for absorbing and measuring power from rotating shafts
[NASA-CASE-XLE-00720] c14 N70-40201
Water cooled gage for strain measurements in high temperature environments
[NASA-CASE-XNP-09205] c14 N71-17657
Development of apparatus for measuring successive increments of strain on elastomers
[NASA-CASE-XMF-04680] c15 N71-19489
Development of Hall effect transducer for converting mechanical shaft rotations into proportional electrical signals
[NASA-CASE-LAR-10620-1] c09 N72-25255
Strain gage mounting assembly
[NASA-CASE-NPO-13170-1] c35 N76-14430

MECHANICAL PROPERTIES
Test apparatus for determining mechanical properties of refractory materials at high temperatures in vacuum or inert atmospheres
[NASA-CASE-XLE-00335] c14 N70-35368
Electric resistance spot welding and brazing for producing metal bonds with superior mechanical and structural characteristics
[NASA-CASE-LAR-11072-1] c15 N73-20535

MECHANICS (PHYSICS)
Hovering type flying vehicle design and principle mechanisms for manned or unmanned use
[NASA-CASE-MSC-12111-1] c02 N71-11039

MECHANIZATION
Apparatus for automatically spraying a coating material
[NASA-CASE-MFS-23506-2] c37 N77-20441

MEDICAL ELECTRONICS
Circuit for detecting initial systole and dicrotic notch --- for monitoring arterial pressure
[NASA-CASE-LEW-11581-1] c54 N75-13531

MEDICAL EQUIPMENT
Electromedical garment, applying vectorcardiologic type electrodes to human torsos for data recording during physical activity
[NASA-CASE-XFR-10856] c05 N71-11189
Respiration analyzing method and apparatus for determining subjects oxygen consumption in aerospace environments
[NASA-CASE-XFR-08403] c05 N71-11202
Laser machining device with dielectric functioning as beam waveguide for mechanical and medical applications
[NASA-CASE-HQN-10541-2] c15 N71-27135
Zero power telemetry actuated switch for biomedical equipment
[NASA-CASE-ARC-10105] c09 N72-17153
Tilting table for testing human body in variety of positions while exercising on ergometer or other biomedical devices
[NASA-CASE-MFS-21010-1] c05 N73-30078
Automatic device for assaying urine on bacterial adenosine triphosphate content
[NASA-CASE-GSC-11169-2] c05 N73-32011
Servo-controlled intravital microscope system
[NASA-CASE-NPO-13214-1] c35 N75-25123
Heat sterilizable patient ventilator
[NASA-CASE-NPO-13313-1] c54 N75-27761
Medical subject monitoring systems --- multichannel monitoring systems
[NASA-CASE-MSC-14180-1] c52 N76-14757
Locking mechanism for orthopedic braces
[NASA-CASE-GSC-12082-1] c54 N76-22914
Readout electrode assembly for measuring biological impedance
[NASA-CASE-ARC-10816-1] c35 N76-24525
A cervix-to-rectum measuring device in a radiation applicator for use in the treatment of cervical cancer
[NASA-CASE-GSC-12081-2] c52 N77-26796
Corneal seal device
[NASA-CASE-LEW-12258-1] c52 N77-28716
Snap-in compressible biomedical electrode
[NASA-CASE-MSC-14623-1] c52 N77-28717

MEMBRANE STRUCTURES
Liquid junction for glass electrode or pH meters
[NASA-CASE-NPO-10682] c15 N70-34699
Expulsion and measuring device for determining quantity of liquid in tank under conditions of weightlessness
[NASA-CASE-XMS-01546] c14 N70-40233
Flexible composite membrane structure impervious to extremely reactive chemicals in rocket propellants
[NASA-CASE-XNP-08837] c18 N71-16210
Flexible barrier membrane comprising porous substrate and incorporating liquid gallium or indium metal used as sealant barriers for

spacecraft walls and pumping liquid propellants
[NASA-CASE-XNP-08881] c17 N71-28747
Meteoroid capture cell construction
[NASA-CASE-MSC-12423-1] c91 N76-30131
MEMBRANES
Apparatus for measuring polymer membrane expansion in electrochemical cells
[NASA-CASE-XGS-03865] c14 N69-21363
Separation cell with permeable membranes for fluid mixture component separation
[NASA-CASE-XMS-02952] c18 N71-20742
Water insoluble, cationic permselective membrane
[NASA-CASE-NPO-11091] c18 N72-22567
A reverse osmosis membrane of high urea rejection properties
[NASA-CASE-ARC-10980-1] c27 N77-18265
MEMORY
Method for making conductors for ferrite memory arrays --- from pre-formed metal conductors
[NASA-CASE-LAR-10994-1] c24 N75-13032
MERCURY (METAL)
Interrupter switching device utilizing electrodes and mercury filled capillary tubes in which current flow vaporizes mercury as circuit breaker
[NASA-CASE-XNP-02251] c12 N71-20896
Method of forming ceramic to metal seals impervious to gaseous and liquid mercury at high temperature
[NASA-CASE-XNP-01263-2] c15 N71-26312
Development of system for delivering vaporized mercury to electron bombardment ion engine
[NASA-CASE-NPO-10737] c28 N72-11709
MERCURY VAPOR
Interrupter switching device utilizing electrodes and mercury filled capillary tubes in which current flow vaporizes mercury as circuit breaker
[NASA-CASE-XNP-02251] c12 N71-20896
Liquid-vapor interface seal design for turbine rotating shafts including helical and molecular pumps and liquid cooling of mercury vapor
[NASA-CASE-XNP-02862-1] c15 N71-26294
METABOLIC WASTES
An improved cooling system for removing metabolic heat from an hermetically sealed spacesuit
[NASA-CASE-ARC-11059-1] c54 N77-14743
METABOLISM
Automated analysis of oxidative metabolites
[NASA-CASE-ARC-10469-1] c25 N75-12086
Process for control of cell division
[NASA-CASE-LAR-10773-3] c51 N77-25769
METAL BONDING
Bonding method for improving contact between lead telluride thermoelectric elements and tungsten electrodes
[NASA-CASE-XGS-04554] c15 N69-39786
Plasma spraying gun for forming diffusion bonded metal or ceramic coatings on substrates
[NASA-CASE-XLE-01604-2] c15 N71-15610
Describing metal valve pintle with encapsulated elastomeric body
[NASA-CASE-MSC-12116-1] c15 N71-17648
Apparatus for determining quality of bond between high density material and low density material
[NASA-CASE-MFS-13686] c15 N71-18132
Metal soldering with hydrazine monoperfluoro alkanoate for corrosion resistant coatings
[NASA-CASE-XNP-03459] c15 N71-21078
Leak resistant bonded elastomeric seal for secondary electrochemical cells
[NASA-CASE-XGS-02631] c03 N71-23006
Metal pattern bonding technique for cover glass attachment to silicon solar cells for space applications
[NASA-CASE-XLE-08569] c03 N71-23449
Development of electrical system for indicating optimum contact between electrode and metal surface to permit improved soldering operation
[NASA-CASE-KSC-10242] c15 N72-23497
Development of process for bonding resinous body in cavities of honeycomb structures
[NASA-CASE-MSC-12357] c15 N73-12489
Electric resistance spot welding and brazing for producing metal bonds with superior mechanical and structural characteristics
[NASA-CASE-LAR-11072-1] c15 N73-20535
Totally confined explosive welding --- apparatus to reduce noise level and protect personnel during explosive bonding
[NASA-CASE-LAR-10941-1] c37 N74-21057
Ultrasonically bonded valve assembly
[NASA-CASE-NPO-13360-1] c37 N75-25185
Bimetallic junctions
[NASA-CASE-LEW-11573-1] c26 N77-28265
METAL COATINGS
Joining aluminum to stainless steel by bonding aluminum coatings onto titanium coated stainless steel and brazing aluminum to aluminum/titanium coated steel
[NASA-CASE-MFS-07369] c15 N71-20443
Metal soldering with hydrazine monoperfluoro alkanoate for corrosion resistant coatings
[NASA-CASE-XNP-03459] c15 N71-21078
Low concentration alkaline solution treatment of aluminum with metal phosphate surface coatings to improve chemical bonding and reduce coating weight
[NASA-CASE-XLA-01995] c18 N71-23047
Organometallic compounds of niobium and tantalum useful for film deposition
[NASA-CASE-XNP-04023] c06 N71-28808
Silicide coating process and composition for protection of refractory metals from oxidation
[NASA-CASE-XLE-10910] c18 N71-29040
Selective nickel deposition on irradiation sensitive compounds
[NASA-CASE-LEW-10965-1] c15 N72-25452
Silicon carbide backward diode with coated lead attachment
[NASA-CASE-ERC-10224-2] c09 N73-27150
Panel for selectively absorbing solar thermal energy and the method of producing said panel
[NASA-CASE-MFS-22562-1] c44 N76-14595
Ultraviolet light reflective coating
[NASA-CASE-GSC-11786-1] c24 N76-24363
Germanium coated microbridge and method
[NASA-CASE-MFS-23274-1] c76 N76-30084
Solar cell collector and method for producing same --- indium alloy coatings
[NASA-CASE-LEW-12552-1] c44 N77-17564
Metallic hot wire anemometer --- for high speed wind tunnel tests
[NASA-CASE-ARC-10911-1] c35 N77-20400
METAL CUTTING
Metal shearing energy absorber
[NASA-CASE-HQN-10638-1] c15 N73-30460
Vee-notching device --- with adjustable carriage
[NASA-CASE-MFS-20730-1] c39 N74-13131
Hole cutter --- drill bits and rotating shaft
[NASA-CASE-MFS-22649-1] c37 N75-25186
METAL FIBERS
Lightweight electrically powered flexible thermal laminate --- made of metal fibers
[NASA-CASE-MSC-12662-1] c24 N75-16635
METAL FILMS
Means and methods of depositing thin films on substrates
[NASA-CASE-XNP-00595] c15 N70-34967
Metallic film diffusion into metal or ceramic surfaces for boundary lubrication in aerospace environments
[NASA-CASE-XLE-01765] c18 N71-10772
Bismuth and lead surface coatings for gas bearings in aerospace engineering
[NASA-CASE-XGS-02011] c15 N71-20739
Metallic film diffusion for boundary lubrication in aerospace engineering
[NASA-CASE-XLE-10337] c15 N71-24046
Magnetic recording head composed of ferrite core coated with thin film of aluminum-iron-silicon alloy
[NASA-CASE-GSC-10097-1] c08 N71-27210
Thin absorbing metallic film for increased visible light transmission
[NASA-CASE-LAR-10836-1] c26 N72-27784
Deposition of alloy films --- on irregulary shaped metal object
[NASA-CASE-LEW-11262-1] c27 N74-13270
Multitarget sequential sputtering apparatus
[NASA-CASE-NPO-13345-1] c37 N75-19684
Method of forming metal hydride films
[NASA-CASE-LEW-12083-1] c26 N76-18262
Strong thin membrane structure
[NASA-CASE-NPO-14021-1] c27 N77-32313

METAL FINISHING
Selective plating of etched circuits without removing previous plating
[NASA-CASE-XGS-03120] c15 N71-24047
Surface finishing --- for aircraft wings
[NASA-CASE-MSC-12631-1] c24 N77-28225
METAL FOILS
Characteristics of device for folding thin flexible sheets into compact configuration
[NASA-CASE-XLA-00137] c15 N70-33180
Passive thermal control coating on aluminum foil laminate for inflatable spacecraft surfaces
[NASA-CASE-XLA-01291] c33 N70-36617
Development and characteristics of thermal radiation shielding of refractory metal foil used for induction furnace
[NASA-CASE-XLE-03432] c33 N71-24145
Method of making porous conductive supports for electrodes --- by electroforming and stacking nickel foils
[NASA-CASE-GSC-11367-1] c44 N74-19692
Insulation foil and method of making
[NASA-CASE-LEW-11484-2] c24 N75-14839
Method and apparatus for tensile testing of metal foil
[NASA-CASE-LAR-10208-1] c35 N76-18400
METAL FUELS
Preparing oxidizer coated metal fuel particles
[NASA-CASE-NPO-11975-1] c28 N74-33209
METAL HALIDES
Process for making anhydrous metal halides
[NASA-CASE-LEW-11860-1] c37 N76-18458
Double discharge metal vapor laser with metal halide as a lasant
[NASA-CASE-NPO-13448-2] c36 N77-24469
METAL HYDRIDES
Method of forming metal hydride films
[NASA-CASE-LEW-12083-1] c26 N76-18262
METAL IONS
Chemical synthesis of thermally stable organometallic polymers with divalent metal ion and tetraphenylphosphonitrilic units
[NASA-CASE-HQN-10364] c06 N71-27363
METAL JOINTS
Leakproof soft metal seal for use in very high vacuum systems operating at cryogenic temperatures
[NASA-CASE-XGS-02441] c15 N70-41629
Non-floating universal joint
[NASA-CASE-MSC-19546-1] c37 N77-25536
METAL MATRIX COMPOSITES
High strength reinforced metallic composites for applications over wide temperature range
[NASA-CASE-XLE-02428] c17 N70-33288
Process for producing dispersion strengthened nickel with aluminum comprising metallic matrices embedded with oxides or other hyperfine compounds
[NASA-CASE-XLE-06969] c17 N71-24142
Self lubricating gears and other mechanical parts having surface adapted to frictional contact
[NASA-CASE-MFS-14971] c15 N71-24984
Development of procedure for improved distribution of refractory compounds and micro-constituents in refractory metal matrix
[NASA-CASE-XLE-03940-2] c17 N72-28536
A heat exchanger and method of making
[NASA-CASE-LEW-12441-1] c34 N75-19580
Method of preparing graphite reinforced aluminum composite
[NASA-CASE-MFS-21077-1] c24 N75-28135
Method of making reinforced composite structure
[NASA-CASE-LEW-12619-1] c24 N77-19171
METAL OXIDE SEMICONDUCTORS
Gyrator circuit using MOS field effect transistors
[NASA-CASE-MFS-21433] c09 N73-20232
Radiation hardening of MOS devices by boron --- for stabilizing gate threshold potential of field effect device
[NASA-CASE-GSC-11425-1] c76 N74-20329
Integrated P-channel MOS gyrator
[NASA-CASE-MFS-22343-1] c33 N74-34638
Radiation hardening of MOS devices by boron --- for stabilizing gate threshold potential
[NASA-CASE-GSC-11425-2] c76 N75-25730
Solar cell collector and method for producing same --- indium alloy coatings
[NASA-CASE-LEW-12552-1] c44 N77-17564
Multilevel metallization method for fabricating a metal oxide semiconductor device
[NASA-CASE-MFS-23541-1] c33 N77-27308
METAL OXIDES
Process for producing dispersion strengthened nickel with aluminum comprising metallic matrices embedded with oxides or other hyperfine compounds
[NASA-CASE-XLE-06969] c17 N71-24142
Photofabrication techniques for selective removal of conductive metals oxide coatings from nonconductive substrates
[NASA-CASE-EHC-10108] c06 N72-21094
Producing metal powders of controlled particle size by reducing oxide using reactive metal vapor in vacuum
[NASA-CASE-XLE-06461] c17 N72-22530
Method for obtaining oxygen from lunar or similar soil
[NASA-CASE-MSC-12408-1] c46 N74-13011
METAL PARTICLES
Magnetohydrodynamic generator for mixing nonconductive gas and liquid metal mist to form slugs
[NASA-CASE-XLE-02083] c03 N69-39983
Cermet for nuclear fuel constructed by pressing metal coated ceramic particles in die at temperature to cause bonding of metal coatings, and tested for thermal stability
[NASA-CASE-LEW-10219-1] c18 N71-28729
Preparing oxidizer coated metal fuel particles
[NASA-CASE-NPO-11975-1] c28 N74-33209
METAL PLATES
Development of large area micrometeoroid impact detector panels
[NASA-CASE-XLA-05906] c31 N71-16221
Tungsten-coated tungsten-uranium dioxide nuclear fuel plates
[NASA-CASE-XLE-00209] c22 N73-32528
Strain arrestor plate for fused silica tile --- bonding of thermal insulation to metallic plates or structural parts
[NASA-CASE-MSC-14182-1] c27 N76-14264
METAL POWDER
Production of refractory bodies with controlled porosity by pressing and heating mixtures of refractory and inert metal powders
[NASA-CASE-LEW-10393-1] c17 N71-15468
Electrode sealing and insulation for fuel cells containing caustic liquid electrolytes using powdered plastic and metal
[NASA-CASE-XMS-01625] c15 N71-23022
Apparatus for mechanically dispersing ultrafine metal powders subjected to shock waves
[NASA-CASE-XLE-04946] c17 N71-24911
Method to produce high purity copper fluoride by heating copper hydroxyfluoride powder and subjecting to flowing fluorine gas
[NASA-CASE-LEW-10794-1] c06 N72-17093
Producing metal powders of controlled particle size by reducing oxide using reactive metal vapor in vacuum
[NASA-CASE-XLE-06461] c17 N72-22530
Development of apparatus for producing metal powder particles of controlled size
[NASA-CASE-XLE-06461-2] c17 N72-28535
Metal plating process employing spraying of metallic power/peening particle mixture
[NASA-CASE-GSC-11163-1] c15 N73-32360
METAL SHEETS
Fatigue testing apparatus with light shield and infrared reflector for high temperature evaluation of loaded sheet samples
[NASA-CASE-XLA-01782] c14 N71-26136
Method of making pressure tight seal for super alloy
[NASA-CASE-LAR-10170-1] c37 N74-11301
Method of making an explosively welded scarf joint
[NASA-CASE-LAR-11211-1] c37 N75-12326
Process for making sheets with parallel pores of uniform size
[NASA-CASE-GSC-10984-1] c37 N75-26371
Apparatus for welding sheet material --- butt joints
[NASA-CASE-XMS-01330] c37 N75-27376
METAL SHELLS
A heat exchanger and method of making
[NASA-CASE-LEW-12441-1] c34 N75-19580

METAL SPINNING
Apparatus and method for spin forming tubular elbows with high strength, uniform thickness, and close tolerances
[NASA-CASE-MFS-01083] c15 N71-22723
METAL STRIPS
Metal ribbon wrapped outer wall for regeneratively cooled combustion chamber
[NASA-CASE-XLE-00164] c15 N70-36411
Metal strip mounting arrangement for solar cell arrays on spacecraft
[NASA-CASE-XGS-01475] c03 N71-11058
Forming tubes from long thin flat metal strips
[NASA-CASE-XGS-04175] c15 N71-18579
High speed shutter --- electrically actuated ribbon loop for shuttering optical or fluid passageways
[NASA-CASE-ABC-10516-1] c70 N74-21300
METAL SURFACES
Condenser-separator for dehumidifying air utilizing sintered metal surface
[NASA-CASE-XLA-08645] c15 N69-21465
Nickel plating onto etched aluminum castings
[NASA-CASE-MFS-04148] c17 N71-24830
High thermal emittance black surface coatings and process for applying to metal and metal alloy surfaces used in radiative cooling of spacecraft
[NASA-CASE-XLA-06199] c15 N71-24875
Method for treating metal surfaces to prevent secondary electron transmission
[NASA-CASE-MFS-09469] c24 N71-25555
Method of forming ceramic to metal seals impervious to gaseous and liquid mercury at high temperature
[NASA-CASE-MFS-01263-2] c15 N71-26312
Anodizing method for providing metal surfaces with temperature reducing coatings against flames
[NASA-CASE-XLE-00035] c33 N71-29151
Thin film gauge --- for measuring convective heat transfer rates along test surfaces in wind tunnels
[NASA-CASE-NPO-10617-1] c35 N74-22095
Thermal barrier coating system
[NASA-CASE-LEW-12554-1] c24 N76-23359
Surface finishing --- of metal airfoils by adhesive bonding
[NASA-CASE-MSC-12631-2] c05 N77-31131
METAL VAPORS
Magnetohydrodynamic generator for mixing nonconductive gas and liquid metal mist to form slugs
[NASA-CASE-XLE-02083] c03 N69-39983
Apparatus for producing hydrocarbon slurry containing small particles of magnesium for use as jet aircraft fuel
[NASA-CASE-XLE-00010] c15 N70-33382
Inert gas metallic vapor laser
[NASA-CASE-NPO-13449-1] c36 N75-32441
Isotope separation using metallic vapor lasers
[NASA-CASE-NPO-13550-1] c36 N77-26477
METAL WORKING
Controlled arc spot welding method
[NASA-CASE-MFP-00392] c15 N70-34814
Method and apparatus for shaping and joining large diameter metal tubes using magnetomotive forces
[NASA-CASE-MFP-05114] c15 N71-17650
Description of protective device for providing safe operating conditions around work piece in machine or metal working tool
[NASA-CASE-XLE-01092] c15 N71-22797
Description of portable milling tool for milling tube or pipe ends to desired shape and thickness
[NASA-CASE-MFP-03511] c15 N71-22799
Development and characteristics of frusto-conical die nib for extrusion of refractory metals
[NASA-CASE-XLE-06773] c15 N71-23817
Portable magnetomotive hammer for metal working
[NASA-CASE-MFP-03793] c15 N71-24833
Method and apparatus for portable high precision magnetomotive bulging, constricting, and joining of large diameter metal tubes
[NASA-CASE-MFP-05114-3] c15 N71-24865
Insert facing tool --- manually operated cutting tool for forming studs in honeycomb material
[NASA-CASE-MFS-21485-1] c37 N74-25968
Apparatus for forming dished ion thruster grids
[NASA-CASE-LEW-11694-2] c37 N76-14461
Method of producing complex aluminum alloy parts of high temper, and products thereof
[NASA-CASE-MSC-19693-1] c26 N76-29401
METAL-METAL BONDING
Joining aluminum to stainless steel by bonding aluminum coatings onto titanium coated stainless steel and brazing aluminum to aluminum/titanium coated steel
[NASA-CASE-MFS-07369] c15 N71-20443
Method for honeycomb panel bonding by thermosetting film adhesive with electrical heat means
[NASA-CASE-MFP-01402] c18 N71-21651
Capillary flow weld-bonding
[NASA-CASE-LAR-11726-1] c37 N76-27568
METALLOGRAPHY
Development of method for etching copper
[NASA-CASE-XGS-06306] c17 N71-16044
METALLOSILOXANE POLYMERS
Thiophenyl ether disiloxanes and trisiloxanes useful as lubricant fluids
[NASA-CASE-MFS-22411-1] c37 N74-21058
METALLURGY
Induction heating of metallurgical specimens to high temperatures in coil furnace
[NASA-CASE-XLE-04026] c14 N71-23267
METALS
Transpiration cooled turbine blade made from metallic or ceramic wires
[NASA-CASE-XLE-00020] c15 N70-33226
Self lubricating fluoride-metal composite materials for outer space applications
[NASA-CASE-XLE-08511] c18 N71-23710
Punch and die device for forming convolution series in thin gage metal hemispheres
[NASA-CASE-MFP-05297] c15 N71-23811
Device for bending metal ribbon or wire
[NASA-CASE-XLA-05966] c15 N72-12408
Metal plating process employing spraying of metallic powder/peening particle mixture
[NASA-CASE-GSC-11163-1] c15 N73-32360
Glass-to-metal seals comprising relatively high expansion metals
[NASA-CASE-LEW-10698-1] c37 N74-21063
Scanning nozzle plating system --- for etching or plating metals on substrates without masking
[NASA-CASE-NPO-11758-1] c31 N74-23065
Production of pure metals
[NASA-CASE-LEW-10906-1] c25 N74-30502
Thermocouple tape --- developed from thermoelectrically different metals
[NASA-CASE-LEW-11072-2] c35 N76-15434
Method of forming shrink-fit compression seal
[NASA-CASE-LAR-11563-1] c37 N77-23482
Method for fabricating solar cells having integral collector grids
[NASA-CASE-LEW-12819-1] c44 N77-24593
METEORITE COLLISIONS
Method of and device for determining the characteristics and flux distribution of micrometeorites --- scanning puncture holes in sheet material with photoelectric cell
[NASA-CASE-NPO-12127-1] c91 N74-13130
METEORITES
Method for making pressurized meteoroid penetration detector panels
[NASA-CASE-XLA-08916] c15 N71-29018
METEORITIC DAMAGE
Capacitor sandwich structure containing metal sheets of known thickness for counting penetration rates of meteoroids
[NASA-CASE-XLE-01246] c14 N71-10797
METEOROID HAZARDS
Meteoroid impact position locator aid for manned space station
[NASA-CASE-LAR-10629-1] c35 N75-33367
METEOROID PROTECTION
Development and characteristics of protective coatings for spacecraft
[NASA-CASE-MFP-02507] c31 N71-17679
Development of composite structures for spacecraft to serve as anti-meteoroid device
[NASA-CASE-LAR-10788-1] c31 N73-20880
METEOROIDS
Cameras for photographing meteors in selected sky area
[NASA-CASE-LAR-10226-1] c14 N73-19419

Meteoroid capture cell construction
[NASA-CASE-MSC-12423-1] c91 N76-30131
METEOROLOGICAL BALLOONS
Aerodynamically stable meteorological balloon using surface roughness effect
[NASA-CASE-XMF-04163] c02 N71-23007
METHANE
High temperature gas lubricant consisting of two fluoro-bromo-methanes
[NASA-CASE-XLE-00353] c18 N70-39897
MICHELSON INTERFEROMETERS
Michelson interferometer with photodetector for optical direction sensing
[NASA-CASE-NPO-10320] c14 N71-17655
Servo system for retroreflector of Michelson interferometer
[NASA-CASE-NPO-10300] c14 N71-17662
Computerized optical system for producing multiple images of a scene simultaneously
[NASA-CASE-MSC-12404-1] c23 N73-13661
Interferometer mirror tilt correcting system
[NASA-CASE-NPO-13687-1] c35 N76-14433
MICROBALANCES
Null-type vacuum microbalance for measuring minute mechanical displacements
[NASA-CASE-XAC-00472] c15 N70-40180
MICROBIOLOGY
Development of variable angle device for positioning test tubes to permit optimum drying of culture medium
[NASA-CASE-LAR-10507-1] c11 N72-25284
Apparatus for microbiological sampling --- including automatic swabbing
[NASA-CASE-LAR-11069-1] c35 N75-12272
Automatic inoculating apparatus --- includes movable carraige, drive motor, and swabbing motor
[NASA-CASE-LAR-11074-1] c51 N75-13502
Automatic microbial transfer device
[NASA-CASE-LAR-11354-1] c35 N75-27330
Application of luciferase assay for ATP to antimicrobial drug susceptibility
[NASA-CASE-GSC-12039-1] c51 N77-22794
MICROELECTRONICS
Separation of semiconductor wafer into chips bounded by scribe lines
[NASA-CASE-ERC-10138] c26 N71-14354
Vibrophonocardiograph comprising low weight and small volume piezoelectric microphone with amplifier having high input impedance for high sensitivity and low frequency response
[NASA-CASE-XFR-07172] c05 N71-27234
Electrical connections for thin film hybird microcircuits
[NASA-CASE-XMS-02182] c10 N71-28783
Method for coating through-holes in ceramic substrates used in fabricating miniaturized electronic circuits
[NASA-CASE-XMF-05999] c15 N71-29032
Precision surface cutter for screen circuit negatives and other microcircuits
[NASA-CASE-XLA-09843] c15 N72-27485
Material compositions and processes for developing dielectric thick films used in microcircuit capacitors
[NASA-CASE-LAR-10294-1] c26 N72-28762
Active tuned circuits for microelectronic construction
[NASA-CASE-GSC-11340-1] c10 N72-33230
Germanium coated microbridge and method
[NASA-CASE-MFS-23274-1] c76 N76-30084
MICROFILMS
Apparatus for semiautomatic inspection of microfilmed documents for density, resolution, size, and position
[NASA-CASE-MFS-20240] c14 N71-26788
MICROMETEORITES
Method of and device for determining the characteristics and flux distribution of micrometecrites --- scanning puncture holes in sheet material with photcelectric cell
[NASA-CASE-NPO-12127-1] c91 N74-13130
Micrometeoroid velocity and trajectory analyzer
[NASA-CASE-GSC-11892-1] c35 N76-15433
MICROMETEOROIDS
Particle detector for measuring micrometeoroid velocity in space
[NASA-CASE-XLA-00495] c14 N70-41332
Piezoelectric transducer for detecting and measuring micrometeoroids
[NASA-CASE-XAC-01101] c14 N70-41957
Pressurized cell micrometeoroid detector
[NASA-CASE-XLA-00936] c14 N71-14996
Development of large area micrometeoroid impact detector panels
[NASA-CASE-XLA-05906] c31 N71-16221
Rotary bead dropper and selector for testing micrometeorite transducers
[NASA-CASE-XGS-03304] c09 N71-22988
Measuring micrometeroid depth of penetration into various materials
[NASA-CASE-XLA-00941] c14 N71-23240
Structure of fabric layers for micrometeoroid protection garment with capability for eliminating heat shorts for use in manufacturing space suits
[NASA-CASE-MSC-12109] c18 N71-26285
Micrometeoroid analyzer using arrays of interconnected capacitors and ion detector
[NASA-CASE-ARC-10443-1] c14 N73-20477
Cold cathode discharge tube with pressurized gas cell for meteoroid detection in space
[NASA-CASE-LAR-10483-1] c14 N73-32327
Deployable pressurized cell structure for a micrometeoroid detector
[NASA-CASE-LAR-10295-1] c35 N74-21062
Semiconductor projectile impact detector
[NASA-CASE-MFS-23008-1] c35 N76-19405
MICROMINIATURIZATION
Miniaturized radiometer for detecting low level thermal radiation
[NASA-CASE-XLA-04556] c14 N69-27484
MICROORGANISMS
Development of bacteriostatic conformal coating and methods of application
[NASA-CASE-GSC-10007] c18 N71-16046
Portable vacuum probe surface sampler for sampling large surface areas with relatively light loading densities of microorganisms
[NASA-CASE-LAR-10623-1] c14 N73-30395
Measurement of gas production of microorganisms --- using pressure sensors
[NASA-CASE-LAR-11326-1] c35 N75-33368
Determination of antimicrobial susceptibilities of infected urines without isolation
[NASA-CASE-GSC-12046-1] c52 N77-26797
MICROPARTICLES
Micropacked column for rapid chromatographic analysis using low gas flow rates
[NASA-CASE-XNP-04816] c06 N69-39936
MICROPHONES
Audio signal processing system for noise surge elimination at low amplitude audio input
[NASA-CASE-MSC-12223-1] c07 N71-26181
Vibrophonocardiograph comprising low weight and small volume piezoelectric microphone with amplifier having high input impedance for high sensitivity and low frequency response
[NASA-CASE-XFR-07172] c05 N71-27234
Development of wind tunnel microphone structure to minimize effects of vibrations and eliminate unwanted signals in microphone output
[NASA-CASE-XNP-00250] c11 N71-28779
Adjustable frequency response microphone
[NASA-CASE-LAR-11170-1] c32 N74-12843
MICROPROCESSORS
Microcomputerized electric field meter diagnostic and calibration system
[NASA-CASE-KSC-11035-1] c33 N77-20343
MICROSCOPES
Absolute focus locking device for microscopes to maintain set focus for extended time period
[NASA-CASE-LAR-10184] c14 N72-22445
Hand-held, lightweight, portable photomicroscope
[NASA-CASE-ARC-10468-1] c14 N73-33361
MICROSTRIP TRANSMISSION LINES
Thin conformal antenna array for microwave power conversion
[NASA-CASE-NPO-13886-1] c32 N77-11269
MICROSTRUCTURE
Production of high strength refractory compounds and microconstituents into refractory metal matrix
[NASA-CASE-XLE-03940] c18 N71-26153
Development of procedure for improved distribution of refractory compounds and micro-constituents in refractory metal matrix

[NASA-CASE-XLE-03940-2] c17 N72-28536
Diffusion welding --- heat treatment of nickel alloys following single step vacuum welding process
[NASA-CASE-LEW-11388-2] c37 N74-21055
Method of determining bond quality of power transistors attached to substrates --- X ray inspection of junction microstructure
[NASA-CASE-MFS-21931-1] c37 N75-26372
MICROTHRUST
Electrostatic microthrust propulsion system with annular slit colloid thrustor
[NASA-CASE-GSC-10709-1] c28 N71-25213
Heated porous plug microthrustor for spacecraft reaction jet controlled systems such as fuel flow regulation, propellant disassociation, and heat transfer augmentation
[NASA-CASE-GSC-10640-1] c28 N72-18766
MICROWAVE AMPLIFIERS
Thermally sensitive tuning probe for nullifying detuning effects in microwave cavity resonator of amplifier
[NASA-CASE-XNP-00449] c14 N70-35220
MICROWAVE ANTENNAS
Microwave power receiving antenna solving heat dissipation problems by construction of elements as heat pipe devices
[NASA-CASE-MFS-20333] c09 N71-13486
Development and characteristics of low-noise multimode monopulse antenna feed system for use with microwave communication equipment
[NASA-CASE-XNP-01735] c07 N71-22750
Microwave omnidirectional antenna for use on spacecraft
[NASA-CASE-XLA-03114] c09 N71-22888
Portable equipment for validating C band launch pad antennas and transmission lines used for spacecraft checkout
[NASA-CASE-XKS-10543] c07 N71-26292
Multipurpose microwave antenna, employing dish reflector with plural coaxial horn feeds
[NASA-CASE-NPO-11264] c07 N72-25174
Omnidirectional antenna array with circumferential slots for mounting on cylindrical space vehicle
[NASA-CASE-LAR-10163-1] c09 N72-25247
Characteristics of microwave antenna with conical reflectors to generate plane wave front
[NASA-CASE-NPO-11661] c07 N73-14130
Thin conformal antenna array for microwave power conversion
[NASA-CASE-NPO-13886-1] c32 N77-11269
Dual frequency circularly polarized microwave integrated antenna
[NASA-CASE-MSC-16100-1] c32 N77-15233
MICROWAVE CIRCUITS
Quasi-optical microwave circuit with dielectric body for use with oversize waveguides
[NASA-CASE-ERC-10011] c07 N71-29065
MICROWAVE COUPLING
Microwave waveguide switch with rotor position control
[NASA-CASE-XNP-06507] c09 N71-23548
MICROWAVE EQUIPMENT
Apparatus for generating microwave signals at progressively related phase angles for driving antenna array
[NASA-CASE-ERC-10046] c10 N71-18722
Broadband microwave waveguide window to compensate dielectric material filling
[NASA-CASE-XNP-08880] c09 N71-24808
Dual frequency feed systems for Cassegrainian antennas
[NASA-CASE-NPO-13091-1] c09 N73-12214
Resonant waveguide stark cell --- using microwave spectrometers
[NASA-CASE-LAR-11352-1] c33 N75-26245
Refrigerated coaxial coupling --- for microwave equipment
[NASA-CASE-NPO-13504-1] c33 N75-30430
MICROWAVE FILTERS
Microwave power divider for providing variable output power to output waveguide in fixed waveguide system
[NASA-CASE-NPO-11031] c07 N71-33606
Selective bandpass resonators using bandstop resonator pairs for microwave frequency operation
[NASA-CASE-GSC-10990-1] c09 N73-26195
MICROWAVE FREQUENCIES
Varactor microwave frequency mixing circuit
[NASA-CASE-XGS-02171] c09 N69-24324
Voltage tunable Gunn effect semiconductor for microwave generation
[NASA-CASE-XER-07894] c09 N71-18721
Multimode antenna feed system for microwave and broadband communication
[NASA-CASE-GSC-11046-1] c07 N73-28013
MICROWAVE OSCILLATORS
Microwave generator using Gunn effect for magnetic tuning
[NASA-CASE-NPO-12106] c09 N73-15235
Electron beam controller --- using magnetic field to refocus spent electron beam in microwave oscillator tube
[NASA-CASE-LEW-11617-1] c33 N74-10195
MICROWAVE RADIOMETERS
Input radio frequency circuit for switching type absolute temperature measuring radiometer for noise sources
[NASA-CASE-ERC-11020] c14 N71-26774
MICROWAVE REFLECTOMETERS
Reflectometer for receiver input impedance match measurement
[NASA-CASE-XNP-10843] c07 N71-11267
Surface defect detection by reflected microwave radiation pattern
[NASA-CASE-ARC-10009-1] c15 N71-17822
MICROWAVE RESONANCE
Microwave double resonance spectroscopy absorption cell for gas analysis
[NASA-CASE-LAR-10305] c14 N71-26137
MICROWAVE SENSORS
Remote sensing of vegetation and soil using microwave ellipsometry
[NASA-CASE-GSC-11976-1] c43 N76-23671
MICROWAVE SWITCHING
Design of gyrator circuit using operational amplifiers to replace ungrounded inductors
[NASA-CASE-XAC-10608-1] c09 N71-12517
MICROWAVE TUBES
Electrostatic charged particle collector containing stacked electrodes for microwave tube
[NASA-CASE-LEW-11192-1] c09 N73-13208
MICROWAVES
Radio frequency noise generator having microwave slow-wave structure in gas discharge plasma
[NASA-CASE-XER-11019] c09 N71-23598
Method and apparatus for optically modulating light or microwave beam
[NASA-CASE-GSC-10216-1] c23 N71-26722
Microwave waveguide mixer
[NASA-CASE-ERC-10179] c07 N72-20141
Microwave power transmission system wherein level of transmitted power is controlled by reflections from receiver
[NASA-CASE-MFS-21470-1] c44 N74-19870
RF beam center location method and apparatus for power transmission system
[NASA-CASE-NPO-13821-1] c44 N76-26692
Wide power range microwave feedback controller
[NASA-CASE-GSC-12146-1] c33 N77-21322
MIDAIR COLLISIONS
Economical satellite aided vehicle avoidance system for preventing midair collisions
[NASA-CASE-ERC-10419] c21 N72-21631
Development and characteristics of electronic signalling system and data processing equipment for warning systems to avoid midair collisions between aircraft
[NASA-CASE-LAR-10717-1] c21 N73-30641
MILLIMETER WAVES
Millimeter wave antenna system for spacecraft use
[NASA-CASE-GSC-10949-1] c07 N71-28965
Millimeter wave pumped parametric amplifier
[NASA-CASE-GSC-11617-1] c33 N74-32660
MILLING (MACHINING)
Rotary spindle lathe attachments for machining geometrical cones
[NASA-CASE-XMS-04292] c15 N71-22722
MILLING MACHINES
Electro-optical system for maintaining two-axis alignment during milling operations on large tank-sections
[NASA-CASE-XMF-00908] c14 N70-40238
Description of portable milling tool for milling tube or pipe ends to desired shape and thickness
[NASA-CASE-XMF-03511] c15 N71-22799

Grinding arrangement for ball nose milling cutters
[NASA-CASE-LAR-10450-1] c37 N74-27905
MINERAL METABOLISM
Method and system for in vivo measurement of bone tissue using a two level energy source
[NASA-CASE-MSC-14276-1] c52 N77-14737
MINIATURE ELECTRONIC EQUIPMENT
Miniature solid state, direction sensitive, stress transducer design with bonded semiconductive piezoresistive element for sensing residual stresses
[NASA-CASE-XNP-02983] c14 N71-21091
Transducer circuit design with single coaxial cable for input and output connections including incorporation into miniaturized catheter transducer
[NASA-CASE-ARC-10132-1] c09 N71-24597
Solid state television camera system consisting of monolithic semiconductor mosaic sensor and molecular digital readout systems
[NASA-CASE-XNP-06092] c07 N71-24612
Miniature ingestible telemeter devices to measure deep-body temperature
[NASA-CASE-ARC-10583-1] c52 N76-29894
Miniature biaxial strain transducer
[NASA-CASE-LAR-11648-1] c35 N77-14407
MINIATURIZATION
Miniature vibration isolator utilizing elastic tubing material
[NASA-CASE-XLA-01019] c15 N70-40156
Computer circuit performing both counting and shifting logic operations also capable of miniaturization and integration in basic circuits
[NASA-CASE-XNP-01753] c08 N71-22897
Fast response miniature carbon dioxide detector with no moving parts for measuring concentration in any atmosphere
[NASA-CASE-MSC-13332-1] c14 N72-21408
MIRRORS
Pneumatic control of telescopic mirror support system
[NASA-CASE-XLA-03271] c11 N69-24321
Oscillatory electromagnetic mirror drive system for horizon scanners
[NASA-CASE-XLA-03724] c14 N69-27461
Servo system for retroreflector of Michelson interferometer
[NASA-CASE-NPO-10300] c14 N71-17662
Gas laser frequency stabilized by position of mirrors in resonant cavity
[NASA-CASE-XGS-03644] c16 N71-18614
Highly stable optical mirror assembly optimizing image quality of light diffraction patterns
[NASA-CASE-ERC-10001] c23 N71-24868
Adjustable rigid mount for trihedral mirror formed of alloy with small coefficient of thermal expansion supporting screws and spring-biased plates
[NASA-CASE-XNP-08907] c23 N71-29123
Optical range finder using reflective first surfaces mirror and transmitting beam splitter
[NASA-CASE-MSC-12105-1] c14 N72-21409
Optical mirror support system
[NASA-CASE-XER-07896-2] c23 N72-22673
Strain gauge ambiguity sensor for segmented mirror active optical system
[NASA-CASE-MFS-20506-1] c35 N75-12273
Interferometer mirror tilt correcting system
[NASA-CASE-NPO-13687-1] c35 N76-14433
Method for manufacturing mirrors in zero gravity environment
[NASA-CASE-MSC-12611-1] c12 N76-15189
Method and means for testing a glancing-incidence mirror system --- for X-ray telescopes
[NASA-CASE-MFS-22409-2] c74 N76-26988
Three-mirror telescope
[NASA-CASE-MFS-23675-1] c74 N77-28937
MISSILE CONTROL
Turnstile slot antenna
[NASA-CASE-GSC-11428-1] c32 N74-20864
MISSILE LAUNCHERS
Launch pad missile release system with bending moment change rate reduction in thrust distribution structure at liftoff
[NASA-CASE-XNP-03198] c30 N70-40353
Optical monitor panel consisting of translucent screen with test or meter information projected onto it from rear for application in control rooms of missile launching and tracking stations
[NASA-CASE-XKS-03509] c14 N71-23175
Controlled release device for use in launching rockets or missiles
[NASA-CASE-XKS-03338] c15 N71-24043
MITOSIS
Process for control of cell division
[NASA-CASE-LAR-10773-3] c51 N77-25769
MIXING CIRCUITS
Varactor microwave frequency mixing circuit
[NASA-CASE-XGS-02171] c09 N69-24324
Microwave waveguide mixer
[NASA-CASE-ERC-10179] c07 N72-20141
MOBILITY
Traveling wave solid state amplifier utilizing a semiconductor with negative differential mobility
[NASA-CASE-HQN-10069] c33 N75-27251
MODE TRANSFORMERS
Silicon controlled rectifier inverter with compensation of transients to avoid false gating
[NASA-CASE-XLA-08507] c09 N69-39984
Dual waveguide mode source for controlling amplitudes of two modes
[NASA-CASE-XNP-03134] c07 N71-10676
Direct current transformer
[NASA-CASE-MFS-23659-1] c33 N77-20341
MODEMS
Charge storage diode modulators and demodulators
[NASA-CASE-NPO-10189-1] c33 N77-21314
MODULATION
Demodulator for carrier transducers
[NASA-CASE-NUC-10107-1] c33 N74-17930
MODULATORS
Fabry-Perot interferometer retrodirective reflector modulator for optical communication
[NASA-CASE-XGS-04480] c16 N69-27491
Optical retrodirective modulator with focus spoiling reflector driven by modulation signal
[NASA-CASE-GSC-10062] c14 N71-15605
Calibrator for measuring and modulating or demodulating laser outputs
[NASA-CASE-XLA-03410] c16 N71-25914
Full wave modulator-demodulator amplifier apparatus --- for generating rectified output signal
[NASA-CASE-ERC-10072-1] c33 N74-14939
Charge storage diode modulators and demodulators
[NASA-CASE-NPO-10189-1] c33 N77-21314
MODULES
Biorthogonal encoder with modular design
[NASA-CASE-NPO-10629] c08 N72-18184
MOISTURE
Gas purged dry box glove reducing permeation of air or moisture into dry box or isolator by diffusion through glove
[NASA-CASE-XLE-02531] c05 N71-23080
MOISTURE CONTENT
Remote sensing of vegetation and soil using microwave ellipsometry
[NASA-CASE-GSC-11976-1] c43 N76-23671
MOISTURE METERS
Method of evaluating moisture barrier properties of materials used in electronics encapsulation
[NASA-CASE-NPO-10051] c18 N71-24934
MOLDING MATERIALS
Vacuum method for molding thermosetting compounds used as ablative materials
[NASA-CASE-XLA-01091] c15 N71-10672
Method of making molded electric connector for use with flat conductor cables
[NASA-CASE-XNP-03498] c15 N71-15986
Hydraulic apparatus for casting and molding of liquid polymers
[NASA-CASE-XNP-07659] c06 N71-22975
Cold metal hydroforming techniques using epoxy molds for counteracting creep or stretch
[NASA-CASE-XLE-05641-1] c15 N71-26346
Molding process for imidazopyrrolone polymers
[NASA-CASE-LAR-10547-1] c31 N74-13177
Evacuated displacement compression molding
[NASA-CASE-LAR-10782-1] c31 N74-14133
MOLDS
Forming mold for polishing and machining curved solar magnesium reflector with reinforcing ribs
[NASA-CASE-XLE-08917-2] c15 N71-24836

Using molds for fabricating individual fluid circuit components
[NASA-CASE-XLA-07829] c15 N72-16329
Evacuated displacement compression molding
[NASA-CASE-LAR-10782-1] c31 N74-14133
Molding apparatus --- for thermosetting plastic compositions
[NASA-CASE-LAR-10489-2] c31 N74-32920
Evacuated, displacement compression mold --- of tubular bodies from thermosetting plastics
[NASA-CASE-LAR-10782-2] c31 N75-13111
Method of making an apertured casting --- using duplicate mold
[NASA-CASE-LEW-11169-1] c37 N76-23570

MOLECULAR BEAMS
Selector mechanism for mechanical separation and discrimination of high velocity molecular particles
[NASA-CASE-XLE-01533] c11 N71-10777
Sputtering holes with ion beamlets
[NASA-CASE-LEW-11646-1] c20 N74-31269

MOLECULAR GASES
Compact hydrogenator
[NASA-CASE-NPO-11682-1] c35 N74-15127

MOLECULAR OSCILLATORS
Stabilization of He2(a-3 Sigmau(+)) molecules in liquid helium by optical pumping for vacuum UV laser
[NASA-CASE-NPO-13993-1] c36 N77-24468

MOLECULAR PUMPS
Omnidirectional anisotropic molecular trap, used with vacuum pump to simulate space environments for testing spacecraft components
[NASA-CASE-XGS-00783] c30 N71-17788
Liquid-vapor interface seal design for turbine rotating shafts including helical and molecular pumps and liquid cooling of mercury vapor
[NASA-CASE-XNP-02862-1] c15 N71-26294

MOLECULAR ROTATION
Diatomic infrared gasdynamic laser --- for producing different wavelengths
[NASA-CASE-ARC-10370-1] c36 N75-31426

MOLECULAR SPECTROSCOPY
Microwave double resonance spectroscopy absorption cell for gas analysis
[NASA-CASE-LAR-10305] c14 N71-26137

MOLTEN SALT ELECTROLYTES
Operation method for combined electrolysis device and fuel cell using molten salt to produce power by thermoelectric regeneration mechanism
[NASA-CASE-XLE-01645] c03 N71-20904
Zinc-halide battery with molten electrolyte
[NASA-CASE-NPO-11961-1] c44 N76-18643

MOLYBDENUM CARBIDES
Flame or plasma spraying for molybdenum coating of carbon or graphite surfaces to prevent oxidative corrosion
[NASA-CASE-XLA-00302] c15 N71-16077

MOLYBDENUM COMPOUNDS
Method for producing refractory molybdenum disilicides
[NASA-CASE-XMS-00370] c17 N71-20941

MOMENTS OF INERTIA
Test fixture for measuring moment of inertia of irregularly shaped body with multiple axes
[NASA-CASE-XGS-01023] c14 N71-22992

MOMENTUM
Utilization of momentum devices for forming attitude control and damping system for spacecraft
[NASA-CASE-XLA-02551] c21 N71-21708
Momentum-velocity analyzer for measuring minute space particles
[NASA-CASE-XMS-04201] c14 N71-22990

MONITORS
Fluid leakage detection system with automatic monitoring capability
[NASA-CASE-LAR-10323-1] c12 N71-17573
Monitoring circuit design for sampling circuit control and reduction of time-bandwidth in video communication systems
[NASA-CASE-XNP-02791] c07 N71-23026
Optical monitor panel consisting of translucent screen with test or meter information projected onto it from rear for application in control rooms of missile launching and tracking stations
[NASA-CASE-XKS-03509] c14 N71-23175
Peak polarity selector for monitoring waveforms
[NASA-CASE-FRC-10010] c10 N71-24862
Circuit for monitoring power supply by ripple current indication
[NASA-CASE-KSC-10162] c09 N72-11225
Development of droplet monitoring probe for use in analysis of droplet propagation in mixed-phase fluid stream
[NASA-CASE-NPO-10985] c14 N73-20478
Monitoring and recording lightning strokes in predetermined area
[NASA-CASE-KSC-10728-1] c14 N73-32319
Method and apparatus for optically monitoring the angular position of a rotating mirror
[NASA-CASE-GSC-11353-1] c74 N74-21304
Remote lightning monitor system
[NASA-CASE-KSC-11031-1] c33 N77-21319
Cable fault locator
[NASA-CASE-KSC-10899-1] c33 N77-28394

MONOCHROMATIC RADIATION
Apparatus for producing monochromatic light from continuous plasma source
[NASA-CASE-XNP-04167-2] c25 N72-24753
Laser extensometer
[NASA-CASE-MFS-19259-1] c36 N77-10516

MONOCHROMATORS
Analytical photoionization mass spectrometer with argon gas filter between light source and monochrometer
[NASA-CASE-LAR-10180-1] c06 N71-13461
Color television system for allowing monochrome television camera to produce color pictures
[NASA-CASE-MSC-12146-1] c07 N72-17109

MONOPOLE ANTENNAS
Monopole antenna system for maximum omnidirectional efficiency for use on satellites
[NASA-CASE-XLA-00414] c07 N70-38200
Flexible monopole antenna with broad bandwidth and low voltage standing wave ratio
[NASA-CASE-MSC-12101] c09 N71-18720

MONOPROPELLANTS
Ignition system for monopropellant combustion devices
[NASA-CASE-XNP-00249] c28 N70-38249
Catalyst bed ignition system for hydrazine propellants
[NASA-CASE-XNP-00876] c28 N70-41311
Low thrust monopropellant engine
[NASA-CASE-GSC-12194-1] c20 N77-28219

MONOPULSE ANTENNAS
Electronic and mechanical scanning control system for monopulse tracking antenna
[NASA-CASE-XGS-05582] c07 N69-27460
Development and characteristics of low-noise multimode monopulse antenna feed system for use with microwave communication equipment
[NASA-CASE-XNP-01735] c07 N71-22750
Monopulse scanning network for scanning volumetric antenna pattern
[NASA-CASE-GSC-10299-1] c09 N71-24804
Switchable beamwidth monopulse method and system
[NASA-CASE-GSC-11924-1] c33 N76-27472

MONOPULSE RADAR
Polarization diversity monopulse tracking receiver design without radio frequency switches
[NASA-CASE-XGS-03501] c09 N71-20864
Monopulse tracking system with antenna array of three radiators for deriving azimuth and elevation indications
[NASA-CASE-XGS-01155] c10 N71-21483

MONOSTABLE MULTIVIBRATORS
Development and characteristics of resettable monostable pulse generator with charge rundown-timing circuit
[NASA-CASE-GSC-11139] c09 N71-27016
Monostable multivibrator for producing output pulse widths with positive feedback NOR gates
[NASA-CASE-MSC-13492-1] c10 N71-28860

MOSSBAUER EFFECT
Mossbauer spectrometer radiation detector
[NASA-CASE-LAR-11155-1] c35 N74-15091
Method and apparatus for vibration analysis utilizing the Mossbauer effect
[NASA-CASE-XNP-05882] c35 N75-27329

MOTION
Quick attach mechanism for moving or stationary wires, ropes, or cables
[NASA-CASE-XFR-05421] c15 N71-22994

MOTION PERCEPTION
A condition sensor system and method
[NASA-CASE-MSC-14805-1] c35 N76-26448
MOTION PICTURES
Real time moving scene holographic camera system
[NASA-CASE-MFS-21087-1] c35 N74-17153
Real time, large volume, moving scene holographic camera system
[NASA-CASE-MFS-22537-1] c35 N75-27328
MOTION SIMULATORS
Kinesthetic control simulator --- for pilot training
[NASA-CASE-LAR-10276-1] c09 N75-15662
MOTION STABILITY
Hydraulic drive mechanism for leveling isolation platforms
[NASA-CASE-XMS-03252] c15 N71-10658
MOTORS
Nonmagnetic thermal motor for magnetometer movement
[NASA-CASE-XAR-03786] c09 N69-21313
System for maintaining motor at predetermined speed using digital pulses
[NASA-CASE-XNP-06892] c09 N71-24805
Mechanical thermal motor
[NASA-CASE-MFS-23062-1] c37 N77-12402
MOUNTING
Mounting fixture for supporting thermobulb in pipeline
[NASA-CASE-NPO-10158] c33 N71-16356
Mounting apparatus for temperature control system
[NASA-CASE-NPO-10138] c33 N71-16357
Inertial component clamping assembly design for spacecraft guidance and control system mounting
[NASA-CASE-XMS-02184] c15 N71-20813
Techniques for packaging and mounting printed circuit boards
[NASA-CASE-MFS-21919-1] c10 N73-25243
Lubricated journal bearing
[NASA-CASE-LEW-11076-3] c37 N75-30562
Translatory shock absorber for attitude sensors
[NASA-CASE-MFS-22905-1] c19 N76-22284
Deformable bearing seat
[NASA-CASE-LEW-12527-1] c37 N77-32500
MOVING TARGET INDICATORS
Automatic vehicle location system
[NASA-CASE-NPO-11850-1] c32 N74-12912
MULTICHANNEL COMMUNICATION
Tape guidance system for multichannel digital recording system
[NASA-CASE-XNP-09453] c08 N71-19420
Plural channel data transmission system with quadrature modulation and complementary demodulation
[NASA-CASE-XAC-06302] c08 N71-19763
Improved phase lock loop for receiver in multichannel telemetry system with suppressed carrier
[NASA-CASE-NPO-11593-1] c07 N73-28012
Miniature multichannel biotelemeter system
[NASA-CASE-NPO-13065-1] c52 N74-26625
Medical subject monitoring systems --- multichannel monitoring systems
[NASA-CASE-MSC-14180-1] c52 N76-14757
MULTIENGINE VEHICLES
Vortex attenuation method --- for multi-engine aircraft
[NASA-CASE-LAR-12034-1] c02 N77-22045
MULTILAYER INSULATION
Electrode sealing and insulation for fuel cells containing caustic liquid electrolytes using powdered plastic and metal
[NASA-CASE-XMS-01625] c15 N71-23022
Multilayer insulation panels for cryogenic liquid containers
[NASA-CASE-MFS-14023] c33 N71-25351
Electrical failure detector in solid rocket propellant motor insulation against thermal degradation by fuel grain
[NASA-CASE-XNP-03968] c14 N71-27186
Insulation foil and method of making
[NASA-CASE-LEW-11484-2] c24 N75-14839
Method of making an insulation foil
[NASA-CASE-LEW-11484-1] c24 N75-33181
Insulation for piping
[NASA-CASE-MSC-19523-1] c31 N76-16245
MULTIPATH TRANSMISSION
Anti-multipath digital signal detector
[NASA-CASE-LAR-11827-1] c32 N77-10392
MULTIPLE BEAM INTERVAL SCANNERS
Tracking antenna system with array for synchronous satellite or ground based radar
[NASA-CASE-GSC-10553-1] c07 N71-19854
Variable beamwidth antenna --- with multiple beam, variable feed system
[NASA-CASE-GSC-11862-1] c32 N76-18295
MULTIPLE DOCKING ADAPTERS
Probe and drogue assembly for mechanical linking of two space vehicles
[NASA-CASE-XMS-03613] c31 N71-16346
MULTIPLE OUTPUT PROGRAMS
Multi-computer multiple data path hardware exchange system
[NASA-CASE-NPO-13422-1] c60 N76-14818
MULTIPLEXING
Doppler frequency shift correction device for multiplex communication with Applications Technology Satellites
[NASA-CASE-XGS-02749] c07 N69-39978
Multiplexed communication system design including automatic correction of transmission errors introduced by frequency spectrum shifts
[NASA-CASE-XNP-01306] c07 N71-20814
Satellite network synchronization system with multiple access to multiplex repeater
[NASA-CASE-GSC-10390-1] c07 N72-11149
Apparatus with summing network for compression of analog data by decreasing slope threshold sampling
[NASA-CASE-NPO-10769] c08 N72-11171
Development and characteristics of data multiplexer circuit using field effect transistors arranged in tree switching configuration
[NASA-CASE-NPO-11333] c08 N72-22162
Telemetry and transmission system with programmed sampling and multiplexing
[NASA-CASE-GSC-11388-1] c07 N73-24187
Television multiplexing system, using single crystal controlled clock for signal synchronization
[NASA-CASE-KSC-10654-1] c07 N73-30115
Asynchronous, multiplexing, single line transmission and recovery data system --- for satellite use
[NASA-CASE-NPO-13321-1] c32 N75-26195
Correlation type phase detector --- with time correlation integrator for frequency multiplexed signals
[NASA-CASE-GSC-11744-1] c33 N75-26243
System for producing chroma signals
[NASA-CASE-MSC-14683-1] c74 N77-18893
MULTIPLIERS
Pulse duration modulation multiplier system
[NASA-CASE-XER-09213] c07 N71-12390
Design and development of variable pulse width multiplier
[NASA-CASE-XLA-02850] c09 N71-20447
Capacitance multiplier and filter synthesizing network
[NASA-CASE-NPO-11948-1] c33 N74-32712
MULTISPECTRAL BAND SCANNERS
Optical process for producing classification maps from multispectral data
[NASA-CASE-MSC-14472-1] c43 N77-10584
An interactive color display for multispectral imagery using correlation clustering
[NASA-CASE-MSC-16253-1] c43 N77-31583
MULTISPECTRAL PHOTOGRAPHY
Computerized optical system for producing multiple images of a scene simultaneously
[NASA-CASE-MSC-12404-1] c23 N73-13661
Optical process for producing classification maps from multispectral data
[NASA-CASE-MSC-14472-1] c43 N77-10584
An interactive color display for multispectral imagery using correlation clustering
[NASA-CASE-MSC-16253-1] c43 N77-31583
MULTISTAGE ROCKET VEHICLES
Techniques for recovery of multistage rocket vehicles by providing lifting surfaces on individual sections
[NASA-CASE-XNP-00389] c31 N70-34176
Steerable solid propellant rocket motor adapted to effect payload orientation as multistage rocket stage or reduce velocity as retrorocket
[NASA-CASE-XNP-00234] c28 N70-38645

Multi-mission space vehicle module stage design
[NASA-CASE-XMF-01543] c31 N71-17730
Separation mechanism for use between stages of multistage rocket vehicles
[NASA-CASE-XLA-00188] c15 N71-22874
Development of remotely controlled shaped charge for lateral displacement of rocket stages after separation
[NASA-CASE-XLA-04804] c31 N71-23008
Frangible connecting link suitable for rocket stage separation
[NASA-CASE-MSC-11849-1] c15 N72-22488

MULTIVIBRATORS
Extra-long monostable multivibrator employing bistable semiconductor switch to allow charging of timing circuit
[NASA-CASE-XGS-00381] c09 N70-34819
Variable frequency magnetic coupled multivibrator with temperature compensated frequency control circuit
[NASA-CASE-XGS-00458] c09 N70-38604
Variable frequency magnetic coupled multivibrator with output signal of constant amplitude and waveform
[NASA-CASE-XGS-00131] c09 N70-38995
Improved semiconductor multivibrator circuit which approaches 100 percent efficiency
[NASA-CASE-XAC-00942] c10 N71-16042
Transistorized dc-coupled multivibrator with noninverted output signal
[NASA-CASE-XNP-09450] c10 N71-18723
One shot multivibrator circuit for producing long duration output pulses
[NASA-CASE-ARC-10137-1] c09 N71-28468

MUSCLES
Subminiature insertable force transducer --- including a strain gage to measure forces in muscles
[NASA-CASE-NPO-13423-1] c33 N75-31329

MUSCULAR FUNCTION
Miniature muscle displacement transducer
[NASA-CASE-NPO-13519-1] c33 N76-19338

MUSCULOSKELETAL SYSTEM
Method and apparatus for applying compressional forces to skeletal structure of subject to simulate force during ambulatory conditions
[NASA-CASE-ARC-10100-1] c05 N71-24738

MYOCARDIUM
Myocardium wall thickness transducer and measuring method
[NASA-CASE-NPO-13644-1] c52 N76-29895

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NACELLES
Deflector for preventing objects from entering nacelle inlets of jet aircraft
[NASA-CASE-XLE-00388] c28 N70-34788
Afterburner-equipped jet engine nacelle with slotted configuration afterbody
[NASA-CASE-XLA-10450] c28 N71-21493

NAVIGATION AIDS
Magnetic heading reference
[NASA-CASE-LAR-11387-1] c04 N76-20114

NAVIGATION INSTRUMENTS
Sun angle calculator
[NASA-CASE-MSC-12617-1] c35 N76-29552

NAVIGATION SATELLITES
Satellite aided aircraft collision avoidance system effective for large number of aircraft
[NASA-CASE-ERC-10090] c21 N71-24948

NEAR INFRARED RADIATION
Collimator for analyzing spatial location of near and distant sources of radiation
[NASA-CASE-MFS-20546-2] c14 N73-30389

NEGATIVE FEEDBACK
Complementary regenerative transistorized switch circuit employing positive and negative feedback
[NASA-CASE-XGS-02751] c09 N71-23015
Solid-state current transformer
[NASA-CASE-MFS-22560-1] c33 N77-14335

NEODYMIUM LASERS
Length controlled stabilized mode-lock ND:YAG laser
[NASA-CASE-GSC-11571-1] c36 N77-25499

NETWORK SYNTHESIS
Left and right hand circular electromagnetic polarization excitation by phase shifter and hybrid networks
[NASA-CASE-GSC-10021-1] c09 N71-24595
High speed phase detector design indicating phase relationship between two square wave input signals
[NASA-CASE-XNP-01306-2] c09 N71-24596

NEUROGLIA
Percutaneous connector device
[NASA-CASE-KSC-10849-1] c52 N77-14738

NEUTRALIZERS
Method and apparatus for neutralizing potentials induced on spacecraft surfaces
[NASA-CASE-GSC-11963-1] c33 N77-10429

NEUTRON EMISSION
Deuterium pass through target --- neutron emitting target
[NASA-CASE-LEW-11866-1] c72 N76-15860

NICKEL
Process for producing dispersion strengthened nickel with aluminum comprising metallic matrices embedded with oxides or other hyperfine compounds
[NASA-CASE-XLE-06969] c17 N71-24142
Selective nickel deposition on irradiation sensitive compounds
[NASA-CASE-LEW-10965-1] c15 N72-25452
Brazing alloy composition
[NASA-CASE-XNP-06053] c26 N75-27126
Method of making reinforced composite structure
[NASA-CASE-LEW-12619-1] c24 N77-19171

NICKEL ALLOYS
Preparation of nickel alloys for jet turbine blades operating at high temperatures
[NASA-CASE-XLE-00151] c17 N70-33283
Nickel alloy series for aerospace structures subjected to high temperatures
[NASA-CASE-XLE-00283] c17 N70-36616
Nickel base alloy with resistance to oxidation at high temperatures and superior stress-rupture properties
[NASA-CASE-XLE-02082] c17 N71-16026
High strength nickel based alloys
[NASA-CASE-LEW-10874-1] c17 N72-22535
Diffusion welding --- heat treatment of nickel alloys following single step vacuum welding process
[NASA-CASE-LEW-11388-2] c37 N74-21055
Method of heat treating age-hardenable alloys
[NASA-CASE-XNP-01311] c26 N75-29236
Zirconium modified nickel-copper alloy
[NASA-CASE-LEW-12245-1] c26 N77-20201
Directionally solidified eutectic gamma plus beta nickel-base superalloys
[NASA-CASE-LEW-12906-1] c26 N77-32279
Nickel base alloy --- for gas turbine engine stator vanes
[NASA-CASE-LEW-12270-1] c26 N77-32280

NICKEL CADMIUM BATTERIES
Heat flow calorimeter --- measures output of Ni-Cd batteries
[NASA-CASE-GSC-11434-1] c34 N74-27859
Method and apparatus for reconditioning nickel-cadmium batteries
[NASA-CASE-MFS-23270-1] c44 N77-12511

NICKEL COATINGS
Intermetallic chromium containing nickel aluminide for high temperature corrosion protection of stainless steels
[NASA-CASE-LEW-11267-1] c17 N73-32414

NICKEL COMPOUNDS
Including didymium hydrate in nickel hydroxide of positive electrode of storage batteries to increase ampere hour capacity
[NASA-CASE-XGS-03505] c03 N71-10608
Brazing alloy
[NASA-CASE-XNP-03878] c26 N75-27127

NICKEL PLATE
Nickel plating onto etched aluminum castings
[NASA-CASE-XNP-04148] c17 N71-24830

NIOBIUM
Organometallic compounds of niobium and tantalum useful for film deposition
[NASA-CASE-XNP-04023] c06 N71-28808

NITRIC OXIDE
Reduction of nitric oxide emissions from a combustor
[NASA-CASE-ARC-10814-2] c25 N77-31260

NITRIDES
Growth of gallium nitride crystals
[NASA-CASE-LAR-11302-1] c25 N75-13054

NITRILES
Intumescent paint containing nitrile rubber for fire protection
[NASA-CASE-ARC-10196-1] c18 N73-13562
Catalytic trimerization of aromatic nitriles and triaryl-s-triazine ring cross-linked high temperature resistant polymers and copolymers made thereby
[NASA-CASE-LEW-12053-1] c27 N74-34579
NITROAMINES
Nitroaniline sulfate, intumescent paints
[NASA-CASE-ARC-10099-1] c18 N71-15469
Mercaptan terminated polymer containing sulfonic acid salts of nitrosubstituted aromatic amines for heat and moisture resistant coatings
[NASA-CASE-ARC-10325] c06 N72-25147
Nitramine propellants
[NASA-CASE-NPO-14103-1] c28 N77-25346
NITROGEN
III-V photocathode with nitrogen doping for increased quantum efficiency
[NASA-CASE-NPO-12134-1] c33 N76-31409
NITROGEN OXIDES
Combustion engine --- for air pollution control
[NASA-CASE-NPO-13671-1] c37 N77-31497
NITROGEN TETROXIDE
Gas chromatographic method for determining water in nitrogen tetroxide rocket propellant
[NASA-CASE-NPO-10234] c06 N72-17094
NITROGUANIDINE
Solid propellant stabilizer containing nitroguanidine
[NASA-CASE-NPO-12000] c27 N72-25699
NOISE GENERATORS
Pseudo-noise test set for communication system evaluation --- test signals
[NASA-CASE-MFS-22671-1] c35 N75-21582
Method of and means for testing a tape record/playback system
[NASA-CASE-MFS-22671-2] c35 N77-17426
NOISE METERS
Instrumentation for measurement of aircraft noise and sonic boom
[NASA-CASE-LAR-11173-1] c35 N75-19614
Differential sound level meter
[NASA-CASE-LAR-12106-1] c35 N77-23441
NOISE REDUCTION
Upper surface, external flow, jet-augmented flap configuration for high wing jet aircraft for noise reduction
[NASA-CASE-XLA-00087] c02 N70-33332
Cassegrain antenna subreflector flange for suppressing ground noise and increasing antenna transmitting efficiency
[NASA-CASE-XNP-00683] c09 N70-35425
Device for adding water to high velocity exhaust jets to reduce velocity, noise, and temperature
[NASA-CASE-XMF-01813] c28 N70-41582
Variable time constant, wide frequency range smoothing network for noise removal from pulse chains
[NASA-CASE-XGS-01983] c10 N70-41964
Digital telemetry system apparatus to reduce tape recorder wow and flutter noise during playback
[NASA-CASE-XGS-01812] c07 N71-23001
Audio signal processing system for noise surge elimination at low amplitude audio input
[NASA-CASE-MSC-12223-1] c07 N71-26181
Variable frequency nuclear magnetic resonance spectrometer providing drive signals over wide frequency range and minimizing noise effects
[NASA-CASE-XNP-09830] c14 N71-26266
Noise elimination in coherent imaging system by axial rotation of optical lense for spectral distribution of degrading affects
[NASA-CASE-GSC-11133-1] c23 N72-11568
Audio equipment for removing impulse noise from audio signals
[NASA-CASE-NPO-11631] c10 N73-12244
Jet aircraft exhaust nozzle for noise reduction
[NASA-CASE-LAR-10951-1] c28 N73-19819
Development of aircraft configuration for reduction of jet aircraft noise by exhausting engine gases over upper surface of wing
[NASA-CASE-LAR-11087-1] c02 N73-26008
Method for eliminating noise and debris of explosive welding techniques by using complete enclosure
[NASA-CASE-LAR-10941-2] c15 N73-32371
Gas turbine exhaust nozzle --- for noise reduction
[NASA-CASE-LEW-11569-1] c07 N74-15453
Totally confined explosive welding --- apparatus to reduce noise level and protect personnel during explosive bonding
[NASA-CASE-LAR-10941-1] c37 N74-21057
Jet exhaust noise suppressor
[NASA-CASE-LEW-11286-1] c07 N74-27490
Supersonic fan blading --- noise reduction in turbofan engines
[NASA-CASE-LEW-11402-1] c07 N74-28226
Variably positioned guide vanes for aerodynamic choking
[NASA-CASE-LAR-10642-1] c07 N74-31270
Noise suppressor --- for turbofan engine by incorporating annular acoustically porous elements in exhaust and inlet ducts
[NASA-CASE-LAR-11141-1] c07 N74-32418
Abating exhaust noises in jet engines
[NASA-CASE-ARC-10712-1] c07 N74-33218
Television noise reduction device
[NASA-CASE-MSC-12607-1] c32 N75-21485
Cascade plug n zzle --- for jet noise reduction
[NASA-CASE-LAR-11674-1] c07 N76-18117
Noise suppressor for turbo fan jet engines
[NASA-CASE-ARC-10812-1] c07 N76-18131
Apparatus for reducing aerodynamic noise in a wind tunnel
[NASA-CASE-MFS-23099-1] c09 N76-23273
Optical noise suppression device and method --- laser light exposing film
[NASA-CASE-MSC-12640-1] c74 N76-31998
Apparatus and method for jet noise suppression
[NASA-CASE-LAR-11903-1] c07 N77-15036
Acoustically swept rotor
[NASA-CASE-ARC-11106-1] c05 N77-31130
NOISE TEMPERATURE
Input radio frequency circuit for switching type absolute temperature measuring radiometer for noise sources
[NASA-CASE-ERC-11020] c14 N71-26774
NOISE THRESHOLD
Threshold extension device for improving operating performance of frequency modulation demodulators by eliminating click-type noise impulses
[NASA-CASE-MSC-12165-1] c07 N71-33696
NONDESTRUCTIVE TESTS
Nondestructive radiographic tests of resistance welds
[NASA-CASE-XNP-02588] c15 N71-18613
Space environment simulator for testing spacecraft components under aerospace conditions
[NASA-CASE-NPO-10141] c11 N71-24964
Apparatus for semiautomatic inspection of microfilmed documents for density, resolution, size, and position
[NASA-CASE-MFS-20240] c14 N71-26788
Dye penetrant and technique for nondestructive tests of solid surfaces contacted by liquid oxygen
[NASA-CASE-XMF-02221] c18 N71-27170
Method and photodetector device for locating abnormal voids in low density materials
[NASA-CASE-MFS-20044] c14 N71-28993
Holographic system for nondestructive testing
[NASA-CASE-MFS-21704-1] c35 N75-25124
Hybrid holographic non-destructuve test system --- optical and acoustical methods capable of detecting flaws in materials
[NASA-CASE-MFS-23114-1] c35 N76-24529
Method and apparatus for nondestructive testing of pressure vessels
[NASA-CASE-NPO-12142-1] c38 N76-28563
Nondestructive method for instrumenting helicopter rotor blades
[NASA-CASE-LAR-11201-1] c35 N77-22452
NONEQUILIBRIUM PLASMAS
Plasma probes having guard ring and primary sensor at same potential to prevent stray wall current collection in ionized gases
[NASA-CASE-XLE-00690] c25 N69-39884
NONFLAMMABLE MATERIALS
Intumescent paint containing nitrile rubber for fire protection
[NASA-CASE-ARC-10196-1] c18 N73-13562
Non-flammable elastomeric fiber from a fluorinated elastomer and containing an

halogenated flame retardant
[NASA-CASE-MSC-14331-1] c27 N76-24405
Process for producing flame resistant polyamides and products produced thereby
[NASA-CASE-MSC-16074-1] c27 N77-14262
Low density bismaleimide-carbon microballoon composites
[NASA-CASE-ARC-11040-1] c24 N77-19173
NONLINEAR FEEDBACK
Coherent receiver employing nonlinear coherence detection for carrier tracking
[NASA-CASE-NPO-11921-1] c32 N74-30523
Nonlinear nonsingular feedback shift registers
[NASA-CASE-NPO-13451-1] c33 N76-14373
NONLINEAR SYSTEMS
Detector assembly for discriminating first signal with respect to presence or absence of second signal at time of occurrence of first signal
[NASA-CASE-XNP-00701] c09 N70-40272
Describing continuous analog to digital converter with parallel digital output and nonlinear feedback
[NASA-CASE-XAC-04031] c08 N71-18594
Split range transducer
[NASA-CASE-XLA-11189] c10 N72-20222
NOSE CONES
Automatically deploying nozzle exit cone extension
[NASA-CASE-XLE-01640] c31 N71-15637
Nose cone mounted heat resistant antenna comprising plurality of adjacent layers of silica not introducing paths of high thermal conductivity through ablative shield
[NASA-CASE-XMS-04312] c07 N71-22984
NOSE WHEELS
Nose gear steering system for vehicles with main skids to provide directional stability after loss of aerodynamic control
[NASA-CASE-XLA-01804] c02 N70-34160
NOTCH TESTS
Vee-notching device --- with adjustable carriage
[NASA-CASE-MFS-20730-1] c39 N74-13131
Notch filter
[NASA-CASE-MFS-23303-1] c32 N77-18307
NOTCHES
Notch filter
[NASA-CASE-MFS-23303-1] c32 N77-18307
NOZZLE DESIGN
High thrust annular liquid propellant rocket engine and exhaust nozzle design
[NASA-CASE-XLE-00078] c28 N70-33284
Penshaped, supersonic exhaust nozzle design
[NASA-CASE-XLE-00057] c28 N70-38711
Telescoping-spike supersonic nozzle for turbojet or ramjet engines
[NASA-CASE-XLE-00005] c28 N70-39899
Automatically deploying nozzle exit cone extension
[NASA-CASE-XLE-01640] c31 N71-15637
Propellant injection assembly having individually removable and replaceable nozzles for liquid fueled rocket engines
[NASA-CASE-XNP-00968] c28 N71-15660
Development of collapsible nozzle extension for rocket engines
[NASA-CASE-MFS-11497] c28 N71-16224
Design and development of gas turbine combustion unit with nozzle guide vanes for introducing diluent air into combustion gases
[NASA-CASE-XLE-103477-1] c28 N71-20330
Prestressed rocket nozzle with ceramic inner rings and refractory metal outer rings
[NASA-CASE-XNP-02888] c18 N71-21068
Scanning nozzle plating system --- for etching or plating metals on substrates without masking
[NASA-CASE-NPO-11758-1] c31 N74-23065
Improved nozzle for use with abrasive and/or corrosive materials
[NASA-CASE-NPO-13823-1] c37 N77-17466
NOZZLE FLOW
System for aerodynamic control of rocket vehicles by secondary injection of fluid into nozzle exhaust stream
[NASA-CASE-XLA-01163] c21 N71-15582
Constructing fluid spike nozzle to eliminate heat transfer and high temperature problems inherent in physical spikes
[NASA-CASE-IGS-01143] c31 N71-15647
Electronic recording system for spatial mass distribution of liquid rocket propellant droplets or vapors ejected from high velocity nozzles
[NASA-CASE-NPO-10185] c10 N71-26339
Tertiary flow injection system for thrust vectoring of propulsive nozzle flow
[NASA-CASE-MFS-20831] c28 N71-29153
Multi-purpose wind tunnel reaction control model block
[NASA-CASE-MSC-19706-1] c09 N77-19077
NOZZLE GEOMETRY
Two dimensional wedge/translating shroud nozzle
[NASA-CASE-LAR-11919-1] c07 N76-22202
NOZZLE INSERTS
Flexible rocket motor nozzle closure device to aid ignition and protect rocket chamber from foreign objects
[NASA-CASE-XLA-02651] c28 N70-41967
NUCLEAR ELECTRIC POWER GENERATION
Nuclear electric generator for accelerating charged propellant particles in electrostatic propulsion system
[NASA-CASE-XLE-00818] c22 N70-34248
NUCLEAR EXPLOSION EFFECT
Development of method for protecting large and oddly shaped areas from radiant and convective heat
[NASA-CASE-XNP-01310] c33 N71-28852
NUCLEAR FUEL ELEMENTS
Tungsten-coated tungsten-uranium dioxide nuclear fuel plates
[NASA-CASE-XLE-00209] c22 N73-32528
NUCLEAR MAGNETIC RESONANCE
Variable frequency nuclear magnetic resonance spectrometer providing drive signals over wide frequency range and minimizing noise effects
[NASA-CASE-XNP-09830] c14 N71-26266
NUCLEAR POWER PLANTS
Development and characteristics of natural circulation radiator for use with nuclear power plants installed in lunar space stations
[NASA-CASE-XHQ-03673] c33 N71-29046
NUCLEAR PUMPING
Volumetric direct nuclear pumped laser
[NASA-CASE-LAR-12183-1] c36 N77-21424
NUCLEAR REACTOR CONTROL
Absorbing gas reactivity control system for minimizing power distribution and perturbation in nuclear reactors
[NASA-CASE-XLE-04599] c22 N72-20597
NUCLEAR REACTORS
Nuclear thermionic converter --- tungsten-thorium oxide rods
[NASA-CASE-NPO-13121-1] c73 N77-18891
NUCLEAR ROCKET ENGINES
Nuclear gaseous reactor for heating working fluid to high temperatures
[NASA-CASE-XLE-00321] c22 N70-34572
NUCLEATE BOILING
Method for improving heat transfer characteristics in nucleate boiling process
[NASA-CASE-XMS-04268] c33 N71-16277
NULL ZONES
Manual control mechanism for adjusting control rod to null position
[NASA-CASE-XLA-01808] c15 N71-20740
NUMBER THEORY
Binary concatenated coding system
[NASA-CASE-MSC-14082-1] c60 N76-23850
NUMERICAL CONTROL
Digital sensor for counting fringes produced by interferometers with improved sensitivity and one photomultiplier tube to eliminate alignment problem
[NASA-CASE-LAR-10204] c14 N71-27215
NUMERICAL INTEGRATION
Apparatus for computing square roots
[NASA-CASE-XGS-04768] c08 N71-19437
NUTATION
Flexible turnstile antenna system for reducing nutation in spin-oriented satellites
[NASA-CASE-XNP-00442] c31 N71-10747
Nutation damper for use on spinning body
[NASA-CASE-GSC-11205-1] c15 N73-25513
NUTS (FASTENERS)
Contamination free separation nut eliminating combustion products from ambient surroundings generated by squib firing
[NASA-CASE-XGS-01971] c15 N71-15922

Split nut and bolt separation device
[NASA-CASE-XNP-06914] c15 N71-21489
Device for securing together structural members with axially stretched bolt and nut
[NASA-CASE-GSC-11149-1] c15 N73-30457

O

O RING SEALS
High pressure four-way valve with O ring adapted to pass across inlet port
[NASA-CASE-XNP-00214] c15 N70-36908
OBLIQUE WINGS
Oblique-wing supersonic aircraft
[NASA-CASE-ARC-10470-3] c05 N76-29217
OCEAN SURFACE
High visibility air sea rescue panel
[NASA-CASE-MSC-12564-1] c54 N76-15792
OCEAN THERMAL ENERGY CONVERSION
Ocean thermal plant
[NASA-CASE-KSC-11034-1] c44 N77-21666
OHMMETERS
Development of electrical system for indicating optimum contact between electrode and metal surface to permit improved soldering operation
[NASA-CASE-KSC-10242] c15 N72-23497
OIL RECOVERY
In-situ laser retorting of oil shale
[NASA-CASE-LEW-12217-1] c36 N77-18429
Oil and fat absorbing polymers
[NASA-CASE-NPO-11609-2] c27 N77-31308
OILS
Color photointerpretation of interference colors reflected from thin film oil-coated components in moving gases for gas flow visualization
[NASA-CASE-XMF-01779] c12 N71-20815
Oil and fat absorbing polymers
[NASA-CASE-NPO-11609-2] c27 N77-31308
OMNIDIRECTIONAL ANTENNAS
Microwave omnidirectional antenna for use on spacecraft
[NASA-CASE-XLA-03114] c09 N71-22888
Vertically stacked collinear array of independently fed omnidirectional antennas for use in collision warning systems on commercial aircraft
[NASA-CASE-LAR-10545-1] c09 N72-21244
Omnidirectional antenna array with circumferential slots for mounting on cylindrical space vehicle
[NASA-CASE-LAR-10163-1] c09 N72-25247
ONBOARD EQUIPMENT
Survival couch for aircraft or spacecraft crews
[NASA-CASE-XLA-00118] c05 N70-33285
Cryogenic storage system for gases onboard spacecraft
[NASA-CASE-XMS-04390] c31 N70-41871
Fiber optic transducers for monitoring and analysis of vibration in aerospace vehicles and onboard equipment
[NASA-CASE-XMF-02433] c14 N71-10616
Design and construction of satellite appendage tie-down cord
[NASA-CASE-XGS-02554] c31 N71-21064
Satellite aided aircraft collision avoidance system effective for large number of aircraft
[NASA-CASE-ERC-10090] c21 N71-24948
Closed loop servosystem for variable speed tape recorders onboard spacecraft
[NASA-CASE-NPO-10700] c07 N71-33613
Collapsible couch system for manned space vehicles
[NASA-CASE-MSC-13140] c05 N72-11085
Monostable multivibrator for conserving power in spacecraft systems
[NASA-CASE-GSC-10082-1] c10 N72-20221
Delayed simultaneous appendage release mechanism for use on spacecraft equipped with despin mechanisms and releasable components
[NASA-CASE-GSC-10814-1] c03 N73-20039
Electronic strain level counter on in-flight aircraft
[NASA-CASE-LAR-10756-1] c32 N73-26910
Magnetic heading reference
[NASA-CASE-LAR-11387-1] c04 N76-20114
OPERATIONAL AMPLIFIERS
Digital automatic gain amplifier
[NASA-CASE-KSC-11008-1] c33 N77-21321
OPHTHALMOLOGY
Ultrasonic device for ophthalmic eye surgery with safe removal of macerated material
[NASA-CASE-LEW-11669-1] c05 N73-27062
Ophthalmic liquifaction pump
[NASA-CASE-LEW-12051-1] c52 N75-33640
Improved tissue macerating instrument --- ophthalmic liquifaction pump
[NASA-CASE-LEW-12668-1] c52 N76-23837
Flow compensating pressure regulator --- for ophthalmic applications
[NASA-CASE-LEW-12718-1] c35 N77-20408
OPTICAL COMMUNICATION
Fabry-Perot interferometer retrodirective reflector modulator for optical communication
[NASA-CASE-XGS-04480] c16 N69-27491
Specifications and drawings for semipassive optical communication system
[NASA-CASE-XLA-01090] c07 N71-12389
Optical communication system with gas filled waveguide for laser beam transmission
[NASA-CASE-HQN-10541-4] c16 N71-27183
Development and characteristics of optical communications system based on modulation of light beams
[NASA-CASE-XLA-01090] c16 N71-28963
High resolution radar transmitting system for transmitting optical pulses to targets
[NASA-CASE-NPO-11426] c07 N73-26119
Apparatus for simulating optical transmission links
[NASA-CASE-GSC-11877-1] c74 N76-18913
Fiber distributed feedback laser
[NASA-CASE-NPO-13531-1] c36 N76-24553
Polarization compensator for optical communications
[NASA-CASE-GSC-11782-1] c74 N76-30053
Fiber optic multiplex optical transmission system
[NASA-CASE-KSC-11047-1] c74 N77-15826
Gregorian all-reflective optical system
[NASA-CASE-GSC-12058-1] c74 N77-26942
Wideband heterodyne receiver for laser communication system
[NASA-CASE-GSC-12053-1] c32 N77-28346
OPTICAL COUPLING
Automatic quadrature control and measuring system --- using optical coupling circuitry
[NASA-CASE-MFS-21660-1] c35 N74-21017
OPTICAL DATA PROCESSING
Optical data processing system using paraboloidal reflecting surfaces
[NASA-CASE-GSC-11296-1] c23 N73-30666
Recorder/processor apparatus --- for optical data processing
[NASA-CASE-GSC-11553-1] c35 N74-15831
An interleaving device --- for computer logic circuits used in optical data processing
[NASA-CASE-GSC-12111-2] c60 N77-31800
OPTICAL EMISSION SPECTROSCOPY
Maksutov spectrograph for low light level research
[NASA-CASE-XLA-10402] c14 N71-29041
OPTICAL EQUIPMENT
Detection instrument for light emitted from ATP biochemical reaction
[NASA-CASE-XGS-05534] c23 N71-16355
Optical characteristics measuring apparatus
[NASA-CASE-XNP-08840] c23 N71-16365
Combined optical attitude and altitude indicating instrument for use in aircraft or spacecraft
[NASA-CASE-XLA-01907] c14 N71-23268
Design and development of optical interferometer with laser light source for application to schlieren systems
[NASA-CASE-XLA-04295] c16 N71-24170
Highly stable optical mirror assembly optimizing image quality of light diffraction patterns
[NASA-CASE-ERC-10001] c23 N71-24868
Optical device containing rotatable prism and reflecting mirror for generating precise angles
[NASA-CASE-XGS-04173] c19 N71-26674
Development and characteristics of Petzval type objective including field shaping lens for focusing light of specified wavelength band on curved photoreceptor
[NASA-CASE-GSC-10700] c23 N71-30027
Slotted fine-adjustment support for optical devices
[NASA-CASE-MFS-20249] c15 N72-11386
Development of process for constructing protective covers for solar cells

[NASA-CASE-GSC-11514-1] c03 N72-24037
Development of light sensing system for controlled orientation of object relative to sun or other light source
[NASA-CASE-NPO-11311] c14 N72-25414
Borescope with adjustable hinged telescoping optical system
[NASA-CASE-MFS-15162] c14 N72-32452
Development and characteristics of cyclically operable, optical shutter for use as focal plane shutter for transmitting single radiation pulses
[NASA-CASE-NPO-10758] c14 N73-14427
Method for producing reticles for use in outer space
[NASA-CASE-GSC-11188-2] c21 N73-19630
Method and equipment for locating earth infrared horizon from space, independent of season and latitude
[NASA-CASE-LAR-10726-1] c14 N73-20475
Optical imaging system for increasing light absorption efficiency of imaging detector
[NASA-CASE-ARC-10194-1] c23 N73-20741
Development of optical system for detecting defective components in rotating machinery with emphasis on bearing assemblies
[NASA-CASE-KSC-10752-1] c15 N73-27407
Attitude sensor
[NASA-CASE-LAR-10586-1] c19 N74-15089
Formation of star tracking reticles
[NASA-CASE-GSC-11188-3] c74 N74-20008
Method and apparatus for optically monitoring the angular position of a rotating mirror
[NASA-CASE-GSC-11353-1] c74 N74-21304
Single reflector interference spectrometer and drive system therefor
[NASA-CASE-NPO-11932-1] c35 N74-23040
Strain gauge ambiguity sensor for segmented mirror active optical system
[NASA-CASE-MFS-20506-1] c35 N75-12273
Optical alignment device
[NASA-CASE-ARC-10932-1] c74 N76-22993
Visual examination apparatus
[NASA-CASE-RE-ARC-10329-2] c52 N76-30793
Optical instrument employing reticle having preselected visual response pattern formed thereon
[NASA-CASE-ARC-10976-1] c74 N77-22950
Water system virus detection
[NASA-CASE-MSC-16098-1] c51 N77-24755
Opto-mechanical subsystem with temperature compensation through isothemal design
[NASA-CASE-GSC-12059-1] c35 N77-27366
Method and apparatus for producing an image from a transparent object
[NASA-CASE-GSC-11989-1] c74 N77-28932
Three-mirror telescope
[NASA-CASE-MFS-23675-1] c74 N77-28937
Method of treating the surface of a glass member
[NASA-CASE-GSC-12110-1] c27 N77-32308

OPTICAL FILTERS
Lens assembly for solar furnace or solar simulator
[NASA-CASE-XNP-04111] c14 N71-15622
Noise elimination in coherent imaging system by axial rotation of optical lense for spectral distribution of degrading affects
[NASA-CASE-GSC-11133-1] c23 N72-11568
Optical conversion method
[NASA-CASE-MSC-12618-1] c74 N76-18917
Optical noise suppression device and method --- laser light exposing film
[NASA-CASE-MSC-12640-1] c74 N76-31998
System for producing chroma signals
[NASA-CASE-MSC-14683-1] c74 N77-18893

OPTICAL HETERODYNING
Computerized optical system for producing multiple images of a scene simultaneously
[NASA-CASE-MSC-12404-1] c23 N73-13661
Gregorian all-reflective optical system
[NASA-CASE-GSC-12058-1] c74 N77-26942
Wideband heterodyne receiver for laser communication system
[NASA-CASE-GSC-12053-1] c32 N77-28346

OPTICAL MEASUREMENT
Passive optical wind and turbulence remote detection system
[NASA-CASE-XNP-14032] c20 N71-16340
Ellipsoidal mirror reflector for measuring reflectance
[NASA-CASE-XGS-05291] c23 N71-16341
Single reflector interference spectrometer and drive system therefor
[NASA-CASE-NPO-11932-1] c35 N74-23040
Hybrid holographic non-destructuve test system --- optical and acoustical methods capable of detecting flaws in materials
[NASA-CASE-MFS-23114-1] c35 N76-24529

OPTICAL MEASURING INSTRUMENTS
Design and development of optically pumped resonance magnetometer for determining vectoral components in spatial coordinate system
[NASA-CASE-XGS-04879] c14 N71-20428
Optical gauging system for monitoring machine tool alignment
[NASA-CASE-XAC-09489-1] c15 N71-26673
Optical system for selecting particular wavelength light beams from multiple wavelength light source
[NASA-CASE-ERC-10248] c14 N72-17323
Optical sensing of supersonic flows by correlating deflections in laser beams through flow
[NASA-CASE-MFS-20642] c14 N72-21407
Multiparameter vision testing apparatus
[NASA-CASE-MSC-13601-2] c54 N75-27759
Device for measuring the contour of a surface
[NASA-CASE-LAR-11869-1] c35 N77-10497

OPTICAL PATHS
Optical instruments
[NASA-CASE-MSC-14096-1] c74 N74-15095

OPTICAL PROPERTIES
Remote-reading torquemeter for use where high horsepowers are transmitted at high rotative speeds
[NASA-CASE-XLE-00503] c14 N70-34818
Quasi-optical microwave circuit with dielectric body for use with oversize waveguides
[NASA-CASE-ERC-10011] c07 N71-29065
Development of light sensing system for controlled orientation of object relative to sun or other light source
[NASA-CASE-NPO-11311] c14 N72-25414
Design and development of light sensing device for controlling orientation of object relative to sun or other light source
[NASA-CASE-NPO-11201] c14 N72-27409
Device and method for determining X ray reflection efficiency, scattering properties, and surface finish of optical surfaces
[NASA-CASE-MFS-20243] c23 N73-13662
Formation of star tracking reticles
[NASA-CASE-GSC-11188-3] c74 N74-20008
Optically actuated two position mechanical mover
[NASA-CASE-NPO-13105-1] c37 N74-21060

OPTICAL PUMPING
Xenon flashlamp driver system for optical laser pumping
[NASA-CASE-ERC-10283] c16 N72-25485
Laser head for simultaneous optical pumping of several dye lasers --- with single flash lamp
[NASA-CASE-LAR-11341-1] c36 N75-19655

OPTICAL PYROMETERS
Filter arrangement for controlling light intensity in motion picture camera used in optical pyrometry
[NASA-CASE-XLA-00062] c14 N70-33254

OPTICAL RADAR
Acquisition and tracking system for optical radar
[NASA-CASE-MFS-20125] c16 N72-13437

OPTICAL RANGE FINDERS
Electro-optical attitude sensing device for landing approach of flight vehicle
[NASA-CASE-XMS-01994-1] c14 N72-17326
Optical range finder using reflective first surfaces mirror and transmitting beam splitter
[NASA-CASE-MSC-12105-1] c14 N72-21409

OPTICAL REFLECTION
Hybrid holcgraphic system using reference, transmitted, and reflected beams simultaneously
[NASA-CASE-MFS-20074] c16 N71-15565
Optical device containing rotatable prism and reflecting mirror for generating precise angles
[NASA-CASE-XGS-04173] c19 N71-26674
Illumination system design for use as sunlight simulator in space environment simulators with multiple light sources reflected to single virtual source
[NASA-CASE-HQN-10781] c23 N71-30292

Composition of diffuse reflective coating containing sodium chloride in combination with diol solvent and organic wetting and drying agents
[NASA-CASE-GSC-11214-1] c06 N73-13128
Schlieren system employing antiparallel reflector in the forward direction
[NASA-CASE-ARC-10971-1] c09 N76-26224
Gregorian all-reflective optical system
[NASA-CASE-GSC-12058-1] c74 N77-26942
Lightweight reflector assembly
[NASA-CASE-NPO-13707-1] c74 N77-28933

OPTICAL RESONANCE
Design and development of optically pumped resonance magnetometer for determining vectoral components in spatial coordinate system
[NASA-CASE-XGS-04879] c14 N71-20428
Laser system with an antiresonant optical ring
[NASA-CASE-HQN-10844-1] c36 N75-19653

OPTICAL SCANNERS
Optical scanner mounted on rotating support structure with method of compensating for image or satellite rotation
[NASA-CASE-XGS-02401] c14 N69-27485
Optical apparatus for visual detection of roundness and regularity of cone surfaces
[NASA-CASE-XMF-00462] c14 N70-34298
Electro-optical system with scan-in illuminator and scan-out photosensor for scanning variable transmittance objects
[NASA-CASE-NPO-11106] c14 N70-34697
Multi-lobar scan horizon sensor
[NASA-CASE-XGS-00809] c21 N70-35427
Optical scanner with linear housing and rotating camera
[NASA-CASE-NPO-11002] c14 N72-22441
Spacecraft attitude sensing system design with narrow field of view sensor rotating about spacecraft x-y axis
[NASA-CASE-GSC-10890-1] c21 N73-30640
Optical instruments
[NASA-CASE-MSC-14096-1] c74 N74-15095
Dual digital video switcher
[NASA-CASE-KSC-10782-1] c33 N75-30431
Traffic survey system --- using optical scanners
[NASA-CASE-MFS-22631-1] c66 N76-19888
Optical scanner
[NASA-CASE-LAR-11711-1] c74 N76-23985

OPTICAL TRACKING
Sun tracker with rotatable plane-parallel plate and two photocells
[NASA-CASE-XGS-01159] c21 N71-10678
Optical tracker with pair of FM reticles having patterns 90 deg out of phase
[NASA-CASE-XGS-05715] c23 N71-16100
Tracking mount for laser telescope employed in tracking large rockets and space vehicles to give information regarding azimuth and elevation
[NASA-CASE-MFS-14017] c14 N71-26627

OPTICAL TRANSFER FUNCTION
Electronic optical transfer function analyzer
[NASA-CASE-MFS-21672-1] c74 N76-19935

OPTIMIZATION
Power point tracker for maintaining optimal output voltage of power source
[NASA-CASE-GSC-10376-1] c14 N71-27407

ORBITAL MECHANICS
Design and development of space shuttle system for delivering payload to earth orbit or celestial orbit
[NASA-CASE-MSC-12391] c30 N73-12884

ORBITAL SPACE STATIONS
Radial module manned space station with artificial gravity environment
[NASA-CASE-XMS-01906] c31 N70-41373
Internal and external serpentine devices for performing physical operations around orbital space stations
[NASA-CASE-XMF-05344] c31 N71-16345
Describing apparatus for manufacturing operations in low and zero gravity environments of orbital space flight
[NASA-CASE-MFS-20410] c15 N71-19214

ORGANIC CHEMISTRY
Process for interfacial polymerization of pyromellitic dianhydride and tetraamino benzene
[NASA-CASE-XLA-03104] c06 N71-11235
Amino acid analysis
[NASA-CASE-NPO-12130-1] c25 N75-14844

ORGANIC COMPOUNDS
Synthesis of high purity dianilinosilanes
[NASA-CASE-XNP-06409] c06 N71-23250
Preparation of dicyanoacetylene and vinylidene copolymers using organic compounds
[NASA-CASE-XNP-03250] c06 N71-23500
Infusible polymer production from reaction of polyfunctional epoxy resins with polyfunctional aziridine compounds
[NASA-CASE-NPO-10701] c06 N71-28620
Composition of diffuse reflective coating containing sodium chloride in combination with diol solvent and organic wetting and drying agents
[NASA-CASE-GSC-11214-1] c06 N73-13128
Automated system for identifying traces of organic chemical compounds in aqueous solutions
[NASA-CASE-NPO-13063-1] c25 N76-18245
Analysis of volatile organic compounds --- trace amounts of organic volatiles in gas samples
[NASA-CASE-MSC-14428-1] c23 N77-17161
Preparation of dielectric coatings of variable dielectric constant by plasma polymerization
[NASA-CASE-ARC-10892-2] c27 N77-17245

ORGANIC LIQUIDS
Inorganic-organic battery separator for alkaline batteries
[NASA-CASE-LEW-12649-1] c44 N76-31674

ORGANIC SILICON COMPOUNDS
Oxygen post-treatment of plastic surfaces coated with plasma polymerized silicon-containing monomers
[NASA-CASE-ARC-10915-2] c27 N77-20256

ORGANOMETALLIC COMPOUNDS
Ammonium perchlorate composite propellant with organic Cu/II/ chelate catalytic additive
[NASA-CASE-LAR-10173-1] c27 N71-14090
Organometallic compounds of niobium and tantalum useful for film deposition
[NASA-CASE-XNP-04023] c06 N71-28808

ORGANOMETALLIC POLYMERS
Chemical synthesis of thermally stable organometallic polymers with divalent metal ion and tetraphenylphosphonitrilic units
[NASA-CASE-HQN-10364] c06 N71-27363
Thiophenyl ether disiloxanes and trisiloxanes useful as lubricant fluids
[NASA-CASE-MFS-22911-1] c37 N74-21058

ORGANS
A miniature implantable ultrasonic echosonometer
[NASA-CASE-ARC-11035-1] c52 N77-15621

ORIFICE FLOW
Relief valve to permit slow and fast bleeding rates at difference pressure levels
[NASA-CASE-XMS-05894-1] c15 N69-21924

ORIFICES
Rocket engine injector orifice to accommodate changes in density, velocity, and pressure, thereby maintaining constant mass flow rate of propellant into rocket combustion chamber
[NASA-CASE-XLE-03157] c28 N71-24736

ORTHOGONAL MULTIPLEXING THEORY
Encoders designed to generate comma free biorthogonal Reed-Muller type code comprising conversion of 64 6-bit words into 64 32-bit data for communication purposes
[NASA-CASE-NPO-10595] c10 N71-25917

ORTHOGONALITY
Device for measuring two orthogonal components of force with gallium flotation of measuring target for use in vacuum environments
[NASA-CASE-XAC-04885] c14 N71-23790

ORTHOPEDICS
Locking mechanism for orthopedic braces
[NASA-CASE-GSC-12082-1] c54 N76-22914
Locking mechanism for orthopedic braces
[NASA-CASE-GSC-12082-2] c52 N77-27694

ORTHOTROPIC CYLINDERS
Method for shaping regeneratively cooled rocket motor casing having minimum thickness at each channel cross section
[NASA-CASE-XLE-00409] c28 N71-15658
Regeneratively cooled rocket motor casing with tapered channels to insure minimum thicknesses at each channel cross section for necessary strength requirements
[NASA-CASE-XLE-05689] c28 N71-15659

OSCILLATION DAMPERS
Design and operation of viscous pendulum damper

[NASA-CASE-XIA-02079] c12 N71-16894
Stabilization system for gravity-oriented satellites using single damper rod
[NASA-CASE-XAC-01591] c31 N71-17729
Suspended mass oscillation damper based on impact energy absorption for damping wind induced oscillations of tall stacks, antennas, and umbilical towers
[NASA-CASE-LAR-10193-1] c15 N71-27146
Damper system for alleviating air flow shock loads on wind tunnel models
[NASA-CASE-XLA-05480] c11 N71-33612

OSCILLATIONS
Development of electrical circuit for suppressing oscillations across inductor operating in resonant mode
[NASA-CASE-ERC-10403-1] c10 N73-26228

OSCILLATORS
Oscillatory electromagnetic mirror drive system for horizon scanners
[NASA-CASE-XLA-03724] c14 N69-27461
Frequency control network for current feedback oscillators converting dc voltage to ac or higher dc voltages
[NASA-CASE-GSC-10041-1] c10 N71-19418
Development and characteristics of oscillating static inverter
[NASA-CASE-XGS-05289] c09 N71-19470
Voltage controlled oscillators and pulse amplitude modulation for signal ratio system
[NASA-CASE-XMF-04367] c09 N71-23545
Development and characteristics of fluid oscillator analog to digital converter with variable frequency controlled by signal passing through conditioning circuit
[NASA-CASE-LEW-10345-1] c10 N71-25899
Wideband voltage controlled oscillator with high phase stability
[NASA-CASE-XLA-03893] c10 N71-27271
Variable frequency subcarrier oscillator with temperature compensation
[NASA-CASE-XNP-03916] c09 N71-28810
Inverter oscillator with voltage feedback
[NASA-CASE-NPO-10760] c09 N72-25254
Controlled oscillator system with a time dependent output frequency
[NASA-CASE-NPO-11962-1] c33 N74-10194
Ultra-stable oscillator with complementary transistors
[NASA-CASE-GSC-11513-1] c33 N74-20862
LC-oscillator with automatic stabilized amplitude via bias current control --- power supply circuit for transducers
[NASA-CASE-MFS-21698-1] c33 N74-26732
Frequency modulated oscillator
[NASA-CASE-MFS-23181-1] c33 N77-17351
Distributed feedback acoustic surface wave oscillator
[NASA-CASE-NPO-13673-1] c71 N77-26919

OSCILLOSCOPES
Sign wave generation simulator for variable amplitude, frequency, damping, and phase pulses for oscilloscope display
[NASA-CASE-NPO-10251] c10 N71-27365
Scan oscilloscope for mapping surface sensitivity of photomultiplier tube
[NASA-CASE-LAR-10320-1] c09 N72-23172
Mechanical exposure interlock device for preventing film overexposure in oscilloscope camera
[NASA-CASE-LAR-10319-1] c14 N73-32322
X-Y alphanumeric character generator for oscilloscopes
[NASA-CASE-GSC-11582-1] c33 N75-19517

OUTER PLANETS EXPLORERS
Spectrometer integrated with a facsimile camera
[NASA-CASE-LAR-11207-1] c35 N75-19613

OUTGASSING
Optical characteristics measuring apparatus
[NASA-CASE-XNP-08840] c23 N71-16365
Helium outgassing process for fused glass coating on ion accelerator grid
[NASA-CASE-LEW-10278-1] c15 N71-28582
Fluid polydimethylsiloxane resin with low outgassing properties in cured state
[NASA-CASE-GSC-11358-1] c06 N73-26100

OUTPUT
Nonlinear nonsingular feedback shift registers
[NASA-CASE-NPO-13451-1] c33 N76-14373

OVENS
Oven for heat treating heat shields
[NASA-CASE-XMS-04318] c15 N69-27871

OVERVOLTAGE
Spark gap type protective circuit for fast sensing and removal of overvoltage conditions
[NASA-CASE-XAC-08981] c09 N69-39897
Sensing circuit for instantaneous reaction to power overloads
[NASA-CASE-GSC-10667-1] c10 N71-33129
Overvoltage protection network
[NASA-CASE-ARC-10197-1] c33 N74-17929
Overload protection system for power inverter
[NASA-CASE-NPO-13872-1] c33 N77-17359

OXIDATION
Silicide coating process and composition for protection of refractory metals from oxidation
[NASA-CASE-XLE-10910] c18 N71-29040
Automated analysis of oxidative metabolites
[NASA-CASE-ARC-10469-1] c25 N75-12086
A process of forming catalytic surfaces for oxidation reactions
[NASA-CASE-MSC-14831-1] c25 N76-23387
Hydrogen rich gas generator
[NASA-CASE-NPO-13464-2] c44 N76-29704

OXIDATION RESISTANCE
Nickel base alloy with resistance to oxidation at high temperatures and superior stress-rupture properties
[NASA-CASE-XLE-02082] c17 N71-16026
Method of protecting the surface of a substrate --- by applying aluminide coating
[NASA-CASE-LEW-11696-1] c37 N75-13261
Duplex aluminized coatings
[NASA-CASE-LEW-11696-2] c26 N75-19408
High temperature resistant cermet and ceramic compositions --- for use in thermionic converters or diodes
[NASA-CASE-NPO-13690-1] c27 N76-13294
High temperature oxidation resistant cermet compositions
[NASA-CASE-NPO-13666-1] c27 N77-13217

OXIDE FILMS
Stainless steel panel for selective absorption of solar energy and the method of producing said panel
[NASA-CASE-MFS-23518-2] c44 N77-31611

OXIDES
Utilization of lithium p-lithiphenoxide to prepare star polymers
[NASA-CASE-NPO-10998-1] c06 N73-32029

OXIDIZERS
Electrolytically regenerative hydrogen-oxygen fuel cells
[NASA-CASE-XLE-04526] c03 N71-11052
Fuel and oxidizer injection head for thrust chamber of reaction engine
[NASA-CASE-NPO-10046] c28 N72-17843

OXIMETRY
Ear oximeter for monitoring blood oxygenation and pressure, pulse rate, and pressure pulse curve, using dc and ac amplifiers
[NASA-CASE-XAC-05422] c04 N71-23185

OXYGEN
Analytical test apparatus and method for determining oxygen content in alkali liquid metal
[NASA-CASE-XLE-01997] c06 N71-23527
Heated tungsten filter for removing oxygen impurities from cesium
[NASA-CASE-XNP-04262-2] c17 N71-26773
Method for detecting oxygen in gas by thermoluminescence
[NASA-CASE-LAR-10668-1] c06 N73-16106
Method for obtaining oxygen from lunar or similar soil
[NASA-CASE-MSC-12408-1] c46 N74-13011
Nonflammable coating compositions --- for use in high oxygen environments
[NASA-CASE-MFS-20486-2] c27 N74-17283

OXYGEN CONSUMPTION
Respiration analyzing method and apparatus for determining subjects oxygen consumption in aerospace environments
[NASA-CASE-XFR-08403] c05 N71-11202

OXYGEN FLUORIDES
Utilization of oxygen difluoride for syntheses of fluoropolymers
[NASA-CASE-NPO-12061-1] c27 N76-16228

OXYGEN METABOLISM
Metabolic analyzer --- for measuring metabolic rate and breathing dynamics of human beings
[NASA-CASE-MFS-21415-1] c52 N74-20728
OXYGEN PLASMA
Oxygen post-treatment of plastic surfaces coated with plasma polymerized silicon-containing monomers
[NASA-CASE-ARC-10915-2] c27 N77-20256
OXYGEN REGULATORS
Lead-oxygen dc power supply system having a closed loop oxygen and water system
[NASA-CASE-MFS-23059-1] c44 N76-27664
OXYGEN SUPPLY EQUIPMENT
Gas compression analysis --- for oxygen supply equipment
[NASA-CASE-MSC-14757-1] c37 N76-13496
Self-contained breathing apparatus
[NASA-CASE-MSC-14733-1] c54 N76-24900

P

P-N JUNCTIONS
Lithium drifted silicon radiation detector with gold rectifying contacts
[NASA-CASE-XLE-10529] c14 N69-23191
Semiconductor p-n junction on needle apex to provide stress and strain sensor
[NASA-CASE-XLA-04980] c09 N69-27422
Improving radiation resistance of silicon semiconductor junctions by doping with lithium
[NASA-CASE-XGS-07801] c09 N71-12513
Silicon radiation detecting probe design for in vivo biomedical use
[NASA-CASE-XMS-01177] c05 N71-19440
Electrode connection for n-on-p silicon solar cell
[NASA-CASE-XLE-04787] c03 N71-20492
Water content in vapor deposition atmosphere for forming n-type and p-type junctions of zinc doped gallium arsenide
[NASA-CASE-XNP-01961] c26 N71-29156
Method for making semiconductor p-n junction stress and strain sensor
[NASA-CASE-XLA-04980-2] c14 N72-28438
Resin for protecting p-n semiconductor junction surface
[NASA-CASE-ERC-10339-1] c18 N73-30532
P-TYPE SEMICONDUCTORS
Addition of group 3 elements to silicon semiconductor material for increased resistance to radiation damage in solar cells
[NASA-CASE-XLE-02798] c26 N71-23654
Integrated P-channel MOS gyrator
[NASA-CASE-MFS-22343-1] c33 N74-34638
PACKAGES
Impact testing machine for imparting large impact forces on high velocity packages
[NASA-CASE-XNP-04817] c14 N71-23225
One hand backpack harness
[NASA-CASE-LAR-10102-1] c05 N72-23085
PACKAGING
Characteristics of device for folding thin flexible sheets into compact configuration
[NASA-CASE-XLA-00137] c15 N70-33180
Method of compactly packaging centrifugally expandable lightweight flexible reflector satellite
[NASA-CASE-XLA-00138] c31 N70-37981
Development and characteristics of system for skin packaging articles using thermoplastic film heating and vacuum operated equipment
[NASA-CASE-MFS-20855] c15 N73-27405
PACKING DENSITY
Micropacked column for rapid chromatographic analysis using low gas flow rates
[NASA-CASE-XNP-04816] c06 N69-39936
PACKINGS (SEALS)
Fluid seal for rotating shafts
[NASA-CASE-LEW-11676-1] c37 N76-22541
PAD
Lubricated journal bearing
[NASA-CASE-LEW-11076-3] c37 N75-30562
PAINTS
Nitroaniline sulfate, intumescent paints
[NASA-CASE-ARC-10099-1] c18 N71-15469
Composition and production method of alkali metal silicate paint with ultraviolet reflection properties
[NASA-CASE-XGS-04799] c18 N71-24183
White paint production by heating impure aluminum silicate clay having low solar absorptance
[NASA-CASE-XNP-02139] c18 N71-24184
PALLADIUM COMPOUNDS
Preventing pressure buildup in electrochemical cells by reacting palladium oxide with evolved hydrogen
[NASA-CASE-XGS-01419] c03 N70-41864
Separation of dissolved hydrogen from water and coating with palladium black
[NASA-CASE-MSC-13335-1] c06 N72-31140
PANELS
Nut and bolt fastener permitting all-directional movement of skin sections with respect to supporting structure
[NASA-CASE-XLA-01807] c15 N71-10799
Multilayer insulation panels for cryogenic liquid containers
[NASA-CASE-MFS-14023] c33 N71-25351
Method and apparatus for fabricating solar cell panels
[NASA-CASE-XNP-03413] c03 N71-26726
Method for making pressurized meteoroid penetration detector panels
[NASA-CASE-XLA-08916] c15 N71-29018
Honeycomb panels of minimal surface, periodic tubule layers
[NASA-CASE-ERC-10364] c18 N72-25540
Fabrication of light weight panel structure using pairs of elongate hollow ribs of semicircular configuration
[NASA-CASE-LAR-11052-1] c32 N73-13929
Ultrasonic scanner for radial and flat panels
[NASA-CASE-MFS-20335-1] c35 N74-10415
Folding structure fabricated of rigid panels
[NASA-CASE-XHQ-02146] c18 N75-27040
Varying density composite structure
[NASA-CASE-LAR-11181-1] c39 N75-31479
Composite sandwich lattice structure
[NASA-CASE-LAR-11898-1] c24 N77-15103
PAPERS
Process for purification of waste water produced by a Kraft process pulp and paper mill
[NASA-CASE-NPO-13847-2] c85 N77-17949
Guide for a typewriter
[NASA-CASE-MFS-15218-1] c37 N77-19457
PARABOLIC ANTENNAS
Device for improving efficiency of parabolic horn antenna system for linearly polarized signals
[NASA-CASE-XNP-00611] c09 N70-35219
Drive system for parabolic tracking antenna with reversible motion and minimal backlash
[NASA-CASE-NPO-10173] c15 N71-24696
Switchable beamwidth monopulse method and system
[NASA-CASE-GSC-11924-1] c33 N76-27472
PARABOLIC REFLECTORS
Device for improving efficiency of parabolic reflector horn for linearly or circularly polarized waves
[NASA-CASE-XNP-00540] c09 N70-35382
Foldable, double cone and parabolic reflector system for solar ray concentration
[NASA-CASE-XLA-04622] c03 N70-41580
Self erecting parabolic reflector design for use in space
[NASA-CASE-XMS-03454] c09 N71-20658
Plural beam antenna with parabolic reflectors
[NASA-CASE-GSC-11013-1] c09 N73-19234
Multimode antenna feed system for microwave and broadband communication
[NASA-CASE-GSC-11046-1] c07 N73-28013
Single frequency, two feed dish antenna having switchable beamwidth
[NASA-CASE-GSC-11968-1] c32 N76-15329
Sun tracking solar energy collector
[NASA-CASE-NPO-13921-1] c44 N77-24590
PARABOLOID MIRRORS
Optical data processing system using paraboloidal reflecting surfaces
[NASA-CASE-GSC-11296-1] c23 N73-30666
Three mirror glancing incidence system for X-ray telescope
[NASA-CASE-MFS-21372-1] c74 N74-27866
PARACHUTE DESCENT
Multiple parachute system for landing control of Apollo type spacecraft
[NASA-CASE-XLA-00898] c02 N70-36804

Parachute system for lowering manned spacecraft from post-reentry to ocean landing
[NASA-CASE-XLA-00195] c02 N70-38009
Piston in bore cutter for severing parachute control lines and sealing cable hole to prevent water leakage into load
[NASA-CASE-XMS-04072] c15 N70-42017
Development and operating principles of gas generator for deploying recovery parachutes from space capsules during atmospheric entry
[NASA-CASE-LAR-10549-1] c31 N73-13898

PARACHUTE FABRICS
Lightweight, variable solidity knitted parachute fabric --- for aerodynamic decelerators
[NASA-CASE-LAR-10776-1] c02 N74-10034

PARACHUTES
System for controlling torque buildup in suspension of gondola connected to balloon by parachute shroud lines
[NASA-CASE-GSC-11077-1] c02 N73-13008
Deploy/release system --- model aircraft flight control
[NASA-CASE-LAR-11575-1] c02 N76-16014

PARAGLIDERS
Multiple parachute system for landing control of Apollo type spacecraft
[NASA-CASE-XLA-00898] c02 N70-36804

PARALLAX
Projection system for display of parallax and perspective
[NASA-CASE-MFS-23194-1] c74 N76-13909

PARALLEL PLATES
Describing instrument capable of measuring true shear viscosity of liquids and viscoelastic materials
[NASA-CASE-XNP-09462] c14 N71-17584

PARALLEL PROCESSING (COMPUTERS)
Digital data reformatter/deserializer
[NASA-CASE-NPO-13676-1] c60 N77-24781

PARAMETRIC AMPLIFIERS
Development of idler feedback system to reduce electronic noise problem in two parametric amplifiers
[NASA-CASE-LAR-10253-1] c09 N72-25258
Millimeter wave pumped parametric amplifier
[NASA-CASE-GSC-11617-1] c33 N74-32660

PARAWINGS
Method for deployment of flexible wing glider from space vehicle with minimum impact and loading
[NASA-CASE-XMS-00907] c02 N70-41630

PARKING
Automated multi-level vehicle parking system
[NASA-CASE-NPO-13058-1] c37 N77-22480

PARTIAL PRESSURE
Equipment for measuring partial water vapor pressure in gas tank
[NASA-CASE-XMS-01618] c14 N71-20741

PARTICLE ACCELERATION
Selector mechanism for mechanical separation and discrimination of high velocity molecular particles
[NASA-CASE-XLE-01533] c11 N71-10777
Method and apparatus for use in forming highly collimated beam of microparticles with high charge to mass ratio and injecting beam into electrostatic accelerating tube
[NASA-CASE-XGS-06628] c24 N71-16213

PARTICLE ACCELERATOR TARGETS
Dispensing targets for ion beam particle generators
[NASA-CASE-NPO-13112-1] c73 N74-26767
Deuterium gas through target --- neutron emitting target
[NASA-CASE-LEW-11866-1] c72 N76-15860
Closed loop spray cooling apparatus --- for particle accelerator targets
[NASA-CASE-LEW-11981-1] c37 N76-20486
Closed loop spray cooling apparatus
[NASA-CASE-LEW-11981-2] c34 N77-32434

PARTICLE BEAMS
Particle beam power density detection and measurement apparatus
[NASA-CASE-XLE-00243] c14 N70-38602
Doppler shift system --- system for measuring velocities of radiating particles
[NASA-CASE-HQN-10740-1] c72 N74-19310

PARTICLE COLLISIONS
Momentum-velocity analyzer for measuring minute space particles
[NASA-CASE-XMS-04201] c14 N71-22990

PARTICLE DENSITY (CONCENTRATION)
Particle detector for measuring micrometeoroid velocity in space
[NASA-CASE-XLA-00495] c14 N70-41532

PARTICLE EMISSION
Mosaic semiconductor radiation detector and position indicator systems engineering for low energy particles
[NASA-CASE-XGS-03230] c14 N71-23401
Apparatus for detecting particle emission lower than noise level of multiplier tube
[NASA-CASE-XLA-07813] c14 N72-17328

PARTICLE ENERGY
Particle detector for indicating incidence and energy of minute space particles
[NASA-CASE-XLA-00135] c14 N70-33322
Particulate and aerosol detector
[NASA-CASE-LAR-11434-1] c35 N76-22509

PARTICLE MASS
Cosmic dust analyzer
[NASA-CASE-MSC-13802-2] c35 N76-15431

PARTICLE MOTION
Moving particle composition analyzer
[NASA-CASE-GSC-11889-1] c35 N76-16393

PARTICLE PRODUCTION
Production of I-123
[NASA-CASE-LEW-11390-3] c25 N76-29379

PARTICLE SIZE DISTRIBUTION
Micropacked column for rapid chromatographic analysis using low gas flow rates
[NASA-CASE-XNP-04816] c06 N69-39936
Apparatus for producing hydrocarbon slurry containing small particles of magnesium for use as jet aircraft fuel
[NASA-CASE-XLE-00010] c15 N70-33382
Production of high strength refractory compounds and microconstituents into refractory metal matrix
[NASA-CASE-XLE-03940] c18 N71-26153
Frequency scanning particle size spectrometer
[NASA-CASE-NPO-13606-1] c35 N75-19627
Particle size spectrometer and refractometer
[NASA-CASE-NPO-13614-1] c35 N75-19628
Grain refinement control in TIG arc welding
[NASA-CASE-MSC-19095-1] c37 N75-19683
Forward-scatter polarimeter for determining the gaseous depolarization factor in the presence of polluting polydispersed particles
[NASA-CASE-NPO-13756-1] c35 N76-14434

PARTICLE TRAJECTORIES
Micrometeoroid velocity and trajectory analyzer
[NASA-CASE-GSC-11892-1] c35 N76-15433

PARTICLES
Development of device for separating, collecting, and viewing soil particles
[NASA-CASE-XNP-09770] c15 N71-20440
Development of apparatus for producing metal powder particles of controlled size
[NASA-CASE-XLE-06461-2] c17 N72-28535

PARTICULATE SAMPLING
Design and development of device to prevent clogging in hoppers containing particulate materials
[NASA-CASE-LAR-10961-1] c15 N73-12496
Development and operation of apparatus for sampling particulates in gases in upper atmosphere
[NASA-CASE-HQN-10037-1] c14 N73-27376
Fine particulate capture device
[NASA-CASE-LEW-11583-1] c37 N74-13199
Electrophoretic sample insertion --- device for uniformly distributing samples in flow path
[NASA-CASE-MFS-21395-1] c25 N74-26948
Sampler of gas borne particles
[NASA-CASE-NPO-13396-1] c35 N76-18401

PASSAGEWAYS
Space expandable tether device for use as passageway between two docked spacecraft
[NASA-CASE-XMS-10993] c15 N71-28936

PASSIVE SATELLITES
Erectable, inflatable, radio signal reflecting passive communication satellite
[NASA-CASE-XLA-00210] c30 N70-40309
Apparatus for measuring backscatter and transmission characteristics of sample segment of large spherical passive satellites
[NASA-CASE-XGS-02608] c07 N70-41678

Forming inflatable panels erectable in space for passive communication satellite
[NASA-CASE-XLA-03497] c15 N71-23052
PATENT APPLICATIONS
Auxiliary power system for activity cooled aircraft
[NASA-CASE-LAR-11626-1] c34 N77-12332
PATENTS
Solar-powered pump
[NASA-CASE-NPO-13567-1] c44 N76-29701
PATIENTS
Stretcher with rigid head and neck support with capability of supporting immobilized person in vertical position for removal from vehicle hatch to exterior also useful as splint stretcher
[NASA-CASE-XMF-06589] c05 N71-23159
PATTERN RECOGNITION
Roughness detector for recording surface pattern of irregularities
[NASA-CASE-XLA-00203] c14 N70-34161
Auditory display for the blind
[NASA-CASE-HQN-10832-1] c71 N74-21014
PAYLOADS
Plastic foam generator for space vehicle instrument payload package flotation in water landing
[NASA-CASE-XLA-00838] c03 N70-36778
Stage separation system for spinning vehicles and payloads
[NASA-CASE-XLA-02132] c31 N71-10582
Payload/spent rocket engine case separation system
[NASA-CASE-XLA-05369] c31 N71-15687
High velocity guidance and spin stabilization gyro controlled jet reaction system for launch vehicle paylcads
[NASA-CASE-XLA-01339] c31 N71-15692
Payload soft landing syster using stowable gas bag
[NASA-CASE-XLA-09881] c31 N71-16085
Zero gravity apparatus utilizing pneumatic decelerating means to create payload subjected to zero gravity conditions by dropping its height
[NASA-CASE-XMF-06515] c14 N71-23227
PCM TELEMETRY
Variable time constant, wide frequency range smoothing network for noise removal from pulse chains
[NASA-CASE-XGS-01983] c10 N70-41964
Data acquisition and processing system with buffer storage and timing device for magnetic tape recording of PCM data and timing information
[NASA-CASE-NPO-12107] c08 N71-27255
High speed direct binary to binary coded decimal converter for use in PCM telemetry systems
[NASA-CASE-KSC-10326] c08 N72-21197
PELLETS
Supporting structure for simultaneous exposure of pellets to X rays
[NASA-CASE-XNP-06031] c15 N71-15606
PELTIER EFFECTS
Use of silicon controlled rectifier shorting circuit to protect thermoelectric generator source from thermal destruction
[NASA-CASE-XGS-04808] c03 N69-25146
PENETRANTS
Dye penetrant and technique for nondestructive tests of solid surfaces contacted by liquid oxygen
[NASA-CASE-XMF-02221] c18 N71-27170
PENETRATION
Method and device for detection of surface discontinuities or defects
[NASA-CASE-MSC-14187-1] c35 N74-32879
PENETROMETERS
Development and characteristics of pentrometer for measuring physical properties of lunar surface
[NASA-CASE-XLA-00934] c14 N71-22765
Portable penetrometer for analyzing soil characteristics
[NASA-CASE-MFS-20774] c14 N73-19420
Auger-type soil penetrometer for burrowing into soil formations
[NASA-CASE-XNP-05530] c14 N73-32321
Penetrometer --- for determining load bearing characteristics of inclined surfaces
[NASA-CASE-NPO-11103-1] c35 N77-27367
PERCEPTION
Measuring method for cutaneous perception using instrument with elongated tubular housing
[NASA-CASE-MSC-13609-1] c05 N72-25122
PERFLUORO COMPOUNDS
Chemical synthesis of hydroxy terminated perfluoro ethers as intermediates for highly fluorinated polyurethane resins
[NASA-CASE-NPO-10768] c06 N71-27254
Perfluoro polyether acyl fluorides
[NASA-CASE-NPO-10765] c06 N72-20121
Reaction of polyperfluoropolyenes with fluorine to produce saturated polymer chain or create reactive sites on chain
[NASA-CASE-NPO-10862] c06 N72-22107
Silphenylenesiloxane polymer with in-chain perfluorcalkyl groups
[NASA-CASE-MFS-20979] c06 N72-25151
Polymerization of perfluorobutadiene
[NASA-CASE-NPO-10863-2] c06 N72-25152
Formation of polyurethane resins from hydroxy terminated perfluoro ethers
[NASA-CASE-NPO-10768-2] c06 N72-27144
Process for preparing disilanols with in-chain perfluoroalkyl groups
[NASA-CASE-MFS-20979-2] c06 N73-32030
Perfluoro alkylene dioxy-bis-(4-phthalic anhydrides and oxy-bis-(perfluoroalkyleneoxyphathalic anhydrides
[NASA-CASE-MFS-22356-1] c23 N75-30256
PERFORATED PLATES
Helium outgassing process for fused glass coating on ion accelerator grid
[NASA-CASE-LEW-10278-1] c15 N71-28582
PERFORATED SHELLS
Method of fabricating an article with cavities --- with thin bottom walls
[NASA-CASE-LAR-10318-1] c31 N74-18089
PERFORMANCE
Thermocouples of molybdenum and iridium alloys for more stable vacuum-high temperature performance
[NASA-CASE-LEW-12174-1] c35 N76-19407
PERFORMANCE PREDICTION
Failure detection and control means for improved drift performance of a gimballed platform system
[NASA-CASE-MFS-23551-1] c04 N76-26175
PERFORMANCE TESTS
Flexible, frangible electrochemical cell and package for operation in low temperature environment
[NASA-CASE-XGS-10010] c03 N72-15986
Test method and equipment for identifying faulty cells or connections in solar cell assemblies
[NASA-CASE-NPO-10401] c03 N72-20033
Development of apparatus for detonating explosive devices in order to determine forces generated and detonation propagation rate
[NASA-CASE-LAR-10800-1] c33 N72-27959
Safety flywheel
[NASA-CASE-HQN-10888-1] c37 N77-22484
PERIODIC VARIATIONS
Mount for continuously orienting a collector dish in a system adapted to perform both diurnal and seasonal solar tracking
[NASA-CASE-MFS-23267-1] c35 N77-20401
PERMEABILITY
Water insoluble, cationic permselective membrane
[NASA-CASE-NPO-11091] c18 N72-22567
PERMITTIVITY
Preparation of dielectric coatings of variable dielectric constant by plasma polymerization
[NASA-CASE-ARC-10892-2] c27 N77-17245
PEROXIDES
Low pressure perfluorobutadiene polymerization with peroxide catalysts
[NASA-CASE-NPO-10447] c06 N70-11252
PERSPIRATION
Manufacturing process for making perspiration resistant-stress resistant biopotential electrode
[NASA-CASE-MSC-90153-2] c05 N72-25120
PERTURBATION
Absorbing gas reactivity control system for minimizing power distribution and perturbation in nuclear reactors
[NASA-CASE-XLE-04599] c22 N72-20597

PERTURBATION THEORY
Dual wavelength scanning Doppler velocimeter --- without perturbation of flow fields
[NASA-CASE-ARC-10637-1] c35 N75-16783
PHASE COHERENCE
Apparatus for estimating amplitude and sign of phase difference or time lag between two signals
[NASA-CASE-NPO-11203] c10 N72-20224
Coherent receiver employing nonlinear coherence detection for carrier tracking
[NASA-CASE-NPO-11921-1] c32 N74-30523
PHASE CONTROL
System designed to reduce time required for obtaining synchronization in data communication with spacecraft utilizing pseudonoise codes
[NASA-CASE-NPO-10214] c10 N71-26577
Wideband voltage controlled oscillator with high phase stability
[NASA-CASE-XLA-03893] c10 N71-27271
Voltage controlled oscillator circuit for two-phase induction motor control
[NASA-CASE-MFS-21465-1] c10 N73-32145
System for generating timing and control signals
[NASA-CASE-NPO-13125-1] c33 N75-19519
PHASE DEMODULATORS
Development of phase demodulation system with two phase locked loops
[NASA-CASE-XNP-00777] c10 N71-19469
Receiving and tracking phase modulated signals
[NASA-CASE-MSC-16170-1] c32 N77-12248
Linear phase demodulator including a phase locked loop with auxiliary feedback loop
[NASA-CASE-GSC-12018-1] c33 N77-14334
PHASE DETECTORS
Detector assembly for discriminating first signal with respect to presence or absence of second signal at time of occurrence of first signal
[NASA-CASE-XNP-00701] c09 N70-40272
Bipolar phase detector and corrector for split phase PCM data signals
[NASA-CASE-XGS-01590] c07 N71-12392
High speed phase detector design indicating phase relationship between two square wave input signals
[NASA-CASE-XNP-01306-2] c09 N71-24596
Phase protection system for ac power lines
[NASA-CASE-MSC-17832-1] c33 N74-14956
Low distortion automatic phase control circuit --- voltage controlled phase shifter
[NASA-CASE-MFS-21671-1] c33 N74-22885
Correlation type phase detector --- with time correlation integrator for frequency multiplexed signals
[NASA-CASE-GSC-11744-1] c33 N75-26243
Impact position detector for outer space particles
[NASA-CASE-GSC-11829-1] c35 N75-27331
Frequency discriminator and phase detector circuit
[NASA-CASE-NPO-11515-1] c33 N77-13315
Phase substitution of spare converter for a failed one of parallel phase staggered converters
[NASA-CASE-NPO-13812-1] c33 N77-30365
PHASE DEVIATION
System for stabilizing cable phase delay utilizing a coaxial cable under pressure
[NASA-CASE-NPO-13138-1] c33 N74-17927
PHASE LOCK DEMODULATORS
Phase locked demodulator with bandwidth switching amplifier circuit
[NASA-CASE-XNP-01107] c10 N71-28859
PHASE LOCKED SYSTEMS
System for phase locking onto carrier frequency signal located within receiver bandpass
[NASA-CASE-XGS-04994] c09 N69-21543
Phase locked loop with sideband rejecting properties in continuous wave tracking radar
[NASA-CASE-XNP-02723] c07 N70-41680
Development of automatic frequency discriminators and control for phase lock loop providing frequency preset capabilities
[NASA-CASE-XNF-08665] c10 N71-19467
Development and characteristics of burst synchronization detection system
[NASA-CASE-XMS-05605-1] c10 N71-19468
Development of phase demodulation system with two phase locked loops
[NASA-CASE-XNP-00777] c10 N71-19469
Diversity receiving system with diversity phase lock
[NASA-CASE-XGS-01222] c10 N71-20841
Phase locked phase modulation system with voltage controlled oscillator for final phase linearity
[NASA-CASE-XNP-05382] c10 N71-23544
Video sync processor with phase locked system
[NASA-CASE-KSC-10002] c10 N71-25865
Characteristics of data-aided carrier tracking loop used for tracking carrier in angle modulated communications system
[NASA-CASE-NPO-11282] c10 N73-16205
Filter for third order phase locked loops in signal receivers
[NASA-CASE-NPO-11941-1] c10 N73-27171
Improved phase lock loop for receiver in multichannel telemetry system with suppressed carrier
[NASA-CASE-NPO-11593-1] c07 N73-28012
Automatic carrier acquisition system for phase locked loop receiver
[NASA-CASE-NPO-11628-1] c07 N73-30113
Phase-locked servo system --- for synchronizing the rotation of slip ring assembly
[NASA-CASE-MFS-22073-1] c33 N75-13139
Low speed phaselock speed control system --- for brushless dc motor
[NASA-CASE-GSC-11127-1] c09 N75-24758
Digital phase-locked loop
[NASA-CASE-GSC-11623-1] c33 N75-25040
Telemetry synchronizer
[NASA-CASE-GSC-11868-1] c17 N76-22245
Receiving and tracking phase modulated signals
[NASA-CASE-MSC-16170-1] c32 N77-12248
PHASE MODULATION
Plural channel data transmission system with quadrature modulation and complementary demodulation
[NASA-CASE-XAC-06302] c08 N71-19763
Adaptive notch filter, using modulation techniques for reversed phase noise signal
[NASA-CASE-XMF-01892] c10 N71-22986
Phase locked phase modulation system with voltage controlled oscillator for final phase linearity
[NASA-CASE-XNP-05382] c10 N71-23544
Scanning signal phase and amplitude electronic control device with hybrid T waveguide junction
[NASA-CASE-NPO-10302] c10 N71-26142
Phase modulator with tuned variable length electrical lines including coupling and varactor diode circuits
[NASA-CASE-MSC-13201-1] c07 N71-28429
Multicarrier communications system for transmitting modulated signals from single transmitter
[NASA-CASE-NPO-11548] c07 N73-26118
Decision feedback loop for tracking a polyphase modulated carrier
[NASA-CASE-NPO-13103-1] c32 N74-20811
Modulator for tone and binary signals --- phase of modulation of tone and binary signals on carrier waves in communication systems
[NASA-CASE-GSC-11703-1] c32 N75-24981
Phase modulating with odd and even finite power series of a modulating signal
[NASA-CASE-LAR-11607-1] c32 N77-14292
Quadraphase demodulation
[NASA-CASE-GSC-12137-1] c32 N77-27272
PHASE SHIFT
Bipolar phase detector and corrector for split phase PCM data signals
[NASA-CASE-XGS-01590] c07 N71-12392
Left and right hand circular electromagnetic polarization excitation by phase shifter and hybrid networks
[NASA-CASE-GSC-10021-1] c09 N71-24595
Pulse code modulated data from frequency multiplex communications by digital phase shift or carrier
[NASA-CASE-NPO-11338] c08 N72-25208
PHASE SHIFT CIRCUITS
Design of gyrator circuit using operational amplifiers to replace ungrounded inductors
[NASA-CASE-XAC-10608-1] c09 N71-12517
Phase shifting circuit for selecting phase of input signal
[NASA-CASE-ARC-10269-1] c10 N72-16172

Continuously variable, voltage-controlled phase shifter
[NASA-CASE-NPO-11129] c09 N72-33204
Voltage controlled oscillator circuit for two-phase induction motor control
[NASA-CASE-MFS-21465-1] c10 N73-32145
Low distortion automatic phase control circuit --- voltage controlled phase shifter
[NASA-CASE-MFS-21671-1] c33 N74-22885
Traveling wave tube circuit
[NASA-CASE-LEW-12013-1] c33 N77-17360

PHASE SHIFT KEYING
Decision feedback loop for tracking a polyphase modulated carrier
[NASA-CASE-NPO-13103-1] c32 N74-20811
Differential phase shift keyed communication system
[NASA-CASE-MSC-14065-1] c32 N74-26654
Differential phase shift keyed signal resolver
[NASA-CASE-MSC-14066-1] c33 N74-27705
Unbalanced quadriphase demodulator
[NASA-CASE-MSC-14840-1] c32 N77-24331

PHASE SWITCHING INTERFEROMETERS
Interferometric tuning acquisition and tracking radar antenna system
[NASA-CASE-XMS-09610] c07 N71-24625

PHASE TRANSFORMATIONS
Magnetohydrodynamic generator for mixing nonconductive gas and liquid metal mist to form slugs
[NASA-CASE-XLE-02083] c03 N69-39983
Method and feed system for separating and orienting liquid and vapor phases of liquid propellants in zero gravity environment
[NASA-CASE-XLE-01182] c27 N71-15635

PHASE VELOCITY
Ultrasonic calibration device --- for producing changes in acoustic attenuation and phase velocity
[NASA-CASE-LAR-11435-1] c35 N76-15432

PHASED ARRAYS
Development of phase control coupling for use with phased array antenna
[NASA-CASE-ERC-10285] c10 N73-16206
Phase array antenna control
[NASA-CASE-MSC-14939-1] c33 N77-19320
Phase conjugation method and apparatus for an active retrodirective antenna array
[NASA-CASE-NPO-13641-1] c32 N77-24340

PHASED LOCKED SYSTEMS
Bit synchronization system using digital data transition tracking phased locked loop
[NASA-CASE-NPO-10844] c07 N72-20140
Digital second-order phase-locked loop
[NASA-CASE-NPO-11905-1] c33 N74-12887
Linear phase demodulator including a phase locked loop with auxiliary feedback loop
[NASA-CASE-GSC-12018-1] c33 N77-14334

PHENOLIC RESINS
Bonding method in the manufacture of continuous regression rate sensor devices
[NASA-CASE-LAR-10337-1] c24 N75-30260

PHENOLS
Utilization of lithium p-lithiphenoxide to prepare star polymers
[NASA-CASE-NPO-10998-1] c06 N73-32029
Device for the detection of phenol and related compounds --- in an electrochemical cell
[NASA-CASE-LEW-12513-1] c25 N77-18238

PHONOCARDIOGRAPHY
Phonocardiogram simulator producing electrical voltage waves to control amplitude and duration between simulated sounds
[NASA-CASE-XMS-10804] c05 N71-24606
Vibrophonocardiograph comprising low weight and small volume piezoelectric microphone with amplifier having high input impedance for high sensitivity and low frequency response
[NASA-CASE-XFR-07172] c05 N71-27234

PHOSPHATES
Low concentration alkaline solution treatment of aluminum with metal phosphate surface coatings to improve chemical bonding and reduce coating weight
[NASA-CASE-XLA-01995] c18 N71-23047

PHOSPHINES
Heat resistant polymers of oxidized styrylphosphine
[NASA-CASE-MSC-14903-1] c27 N76-28425

PHOSPHONITRILES
Chemical synthesis of thermally stable organometallic polymers with divalent metal ion and tetraphenylphosphonitrilic units
[NASA-CASE-HQN-10364] c06 N71-27363

PHOTOCATHODES
Spectrometer using photoelectric effect to obtain spectral data
[NASA-CASE-XNP-04161] c14 N71-15599
III-V photocathode with nitrogen doping for increased quantum efficiency
[NASA-CASE-NPO-12134-1] c33 N76-31409

PHOTOCHEMICAL REACTIONS
Extraction and separation of a preferentially photo-dissociated molecular isotope into positive and negative ions by means of an electric field
[NASA-CASE-LEW-12465-1] c72 N76-27967
Process for producing flame resistant polyamides and products produced thereby
[NASA-CASE-MSC-16074-1] c27 N77-14262
Apparatus for photon excited catalysis
[NASA-CASE-NPO-13566-1] c25 N77-32255

PHOTOCONDUCTIVE CELLS
Two-dimensional radiant energy array computers and computing devices
[NASA-CASE-GSC-11839-1] c60 N77-14751

PHOTOCONDUCTIVITY
Photofabrication techniques for selective removal of conductive metals oxide coatings from nonconductive substrates
[NASA-CASE-ERC-10108] c06 N72-21094

PHOTOCONDUCTORS
Electronic divider and multiplier for analog electric signals
[NASA-CASE-XFR-05637] c09 N71-19480

PHOTOELECTRIC CELLS
Sun tracker with rotatable plane-parallel plate and two photocells
[NASA-CASE-XGS-01159] c21 N71-10678
Method of and device for determining the characteristics and flux distribution of micrometeorites --- scanning puncture holes in sheet material with photoelectric cell
[NASA-CASE-NPO-12127-1] c91 N74-13130

PHOTOELECTRIC EFFECT
Spectrometer using photoelectric effect to obtain spectral data
[NASA-CASE-XNP-04161] c14 N71-15599

PHOTOELECTRIC MATERIALS
Light radiation direction indicator with baffle of two parallel grids
[NASA-CASE-XNP-03930] c14 N69-24331
Use of thin film light detector
[NASA-CASE-NPO-11432-2] c35 N74-15090

PHOTOELECTRONS
Photoelectron spectrometer with means for stabilizing sample surface potential
[NASA-CASE-NPO-13772-1] c35 N76-26450

PHOTOGRAPHIC EQUIPMENT
Camera protecting device for use in photographing rocket engine nozzles or other engine components
[NASA-CASE-NPO-10174] c14 N71-18465
Method of treating the surface of a glass member
[NASA-CASE-GSC-12110-1] c27 N77-32308

PHOTOGRAPHIC FILM
Longitudinalfilm gate and lock mechanism for securing film in motion picture cameras under vibration and high acceleration loads
[NASA-CASE-LAR-10686] c14 N71-28935
Photographic film restoration system using Fourier transformation lenses and spatial filter
[NASA-CASE-MSC-12448-1] c14 N72-20394
Mechanical exposure interlock device for preventing film overexposure in oscilloscope camera
[NASA-CASE-LAR-10319-1] c14 N73-32322
Optical noise suppression device and method --- laser light exposing film
[NASA-CASE-MSC-12640-1] c74 N76-31998
Selective image area control of X-ray film exposure density
[NASA-CASE-NPO-13808-1] c35 N77-24456

PHOTOGRAPHIC MEASUREMENT
Photographic method for measuring viscoelastic strain in solid propellants and other materials
[NASA-CASE-XNP-01153] c32 N71-17645

Impact measuring technique for determining size of hypervelocity projectiles
[NASA-CASE-LAR-10913] c14 N72-16282
TV fatigue crack monitoring system
[NASA-CASE-LAR-11490-1] c35 N76-28530
PHOTOGRAPHIC PROCESSING
Method of post-process intensification of images on photographic films and plates
[NASA-CASE-MFS-23461-1] c35 N76-26449
Method and apparatus for producing an image from a transparent object
[NASA-CASE-GSC-11989-1] c74 N77-28932
PHOTOGRAPHIC PROCESSING EQUIPMENT
Drying chamber for photographic sheet material
[NASA-CASE-GSC-11074-1] c14 N73-28489
PHOTOGRAPHIC RECORDING
Photographing surface flow patterns on wind tunnel test models
[NASA-CASE-XLA-01353] c14 N70-41366
Development of focused image holography with extended sources
[NASA-CASE-ERC-10019] c16 N71-15551
Recording and reconstructing focused image holograms
[NASA-CASE-ERC-10017] c16 N71-15567
Method and means for recording and reconstructing holograms without use of reference beam
[NASA-CASE-ERC-10020] c16 N71-26154
Multiple image storing system for obtaining holographic record on film of high speed projectile
[NASA-CASE-MFS-20596] c14 N72-17324
Phototropic composition of matter with sensitivity to ultraviolet light and usable for producing positive photographic images
[NASA-CASE-XGS-03736] c14 N72-22443
Method for determining thermo-physical properties of specimens --- photographic recording of changes in thin film phase-change temperature indicating material in wind tunnel
[NASA-CASE-LAR-11053-1] c25 N74-18551
PHOTOIONIZATION
Multichannel photoionization chamber for measuring absorption, photoionization yield, and coefficients of gases
[NASA-CASE-ERC-10044-1] c14 N71-27090
PHOTOLYSIS
Solar photolysis of water
[NASA-CASE-NPO-13675-1] c44 N77-32580
PHOTOMAPPING
Window defect planar mapping technique
[NASA-CASE-MSC-19442-1] c74 N77-10899
PHOTOMETERS
Michelson interferometer with photodetector for optical direction sensing
[NASA-CASE-NPO-10320] c14 N71-17655
Indicator device for monitoring charge of wet cell battery, using semiconductor light emitter and photodetector
[NASA-CASE-NPO-10194] c03 N71-20407
Electro-optical detector for determining position of light source
[NASA-CASE-XNP-01059] c23 N71-21821
Photometric flow meter with comparator reference means
[NASA-CASE-XGS-01331] c14 N71-22996
Development of radiant energy sensor to detect the radiant energy wavelength bands from portions of radiating body
[NASA-CASE-ERC-10174] c14 N72-25409
Characteristics of infrared photodetectors manufactured from semiconductor material irradiated by electron beam
[NASA-CASE-LAR-10728-1] c14 N73-12445
Chromato-fluorographic drug detector --- device for detecting and recording fluorescent properties of materials
[NASA-CASE-ARC-10633-1] c25 N74-26947
A 2 degree/90 degree laboratory scattering photometer
[NASA-CASE-GSC-12088-1] c35 N76-17369
PHOTOMICROGRAPHY
Stereo photomicrography system with stereo microscope for viewing specimen at various magnifications
[NASA-CASE-LAR-10176-1] c14 N72-20380
Device for displaying and recording angled views of samples to be viewed by microscope
[NASA-CASE-GSC-11690-1] c14 N73-28499
Hand-held, lightweight, portable photomicroscope
[NASA-CASE-ARC-10468-1] c14 N73-33361
PHOTOMULTIPLIER TUBES
Photomultiplier detector of Canopus for spacecraft attitude control
[NASA-CASE-XNP-03914] c21 N71-10771
Electronic divider and multiplier for analog electric signals
[NASA-CASE-XFR-05637] c09 N71-19480
Circuit design for determining amount of photomultiplier tube light detection utilizing variable current source and dark current signals of opposite polarity
[NASA-CASE-XMS-03478] c14 N71-21040
Apparatus for detecting particle emission lower than noise level of multiplier tube
[NASA-CASE-XLA-07813] c14 N72-17328
Scan oscilloscope for mapping surface sensitivity of photomultiplier tube
[NASA-CASE-LAR-10320-1] c09 N72-23172
Design and development of light sensing device for controlling orientation of object relative to sun or other light source
[NASA-CASE-NPO-11201] c14 N72-27409
Photomultiplier circuit including means for rapidly reducing the sensitivity thereof --- and protection from radiation damage
[NASA-CASE-ARC-10593-1] c33 N74-27682
PHOTON BEAMS
Apparatus for photon excited catalysis
[NASA-CASE-NPO-13566-1] c25 N77-32255
PHOTONS
Solar cell collector and method for producing same --- indium alloy coatings
[NASA-CASE-LEW-12552-1] c44 N77-17564
PHOTOSENSITIVITY
Photosensitive light source device for detecting unmanned spacecraft deviation from reference attitude
[NASA-CASE-XNP-00438] c21 N70-35089
Light sensitive control system for automatically opening and closing dome of solar optical telescope
[NASA-CASE-MSC-10966] c14 N71-19568
Scan oscilloscope for mapping surface sensitivity of photomultiplier tube
[NASA-CASE-LAR-10320-1] c09 N72-23172
Holography utilizing surface plasmon resonances
[NASA-CASE-MFS-22040-1] c35 N74-26946
Apparatus for calibrating an image dissector tube
[NASA-CASE-MFS-22208-1] c33 N75-26244
PHOTOTRANSISTORS
Phototransistor imaging system with mosaic of phototransistors on semiconductor substrate
[NASA-CASE-MFS-20809] c23 N73-13660
Phototransistor with base collector junction diode for integration into photo sensor arrays
[NASA-CASE-MFS-20407] c09 N73-19235
PHOTOTROPISM
Phototropic composition of matter with sensitivity to ultraviolet light and usable for producing positive photographic images
[NASA-CASE-XGS-03736] c14 N72-22443
PHOTOVISCOELASTICITY
Photographic method for measuring viscoelastic strain in solid propellants and other materials
[NASA-CASE-XNP-01153] c32 N71-17645
PHOTOVOLTAIC CELLS
Sensor consisting of photocells mounted on pyramidical base for improved pointing accuracy of planetary trackers
[NASA-CASE-XNP-04180] c07 N69-39736
Light sensitive digital aspect sensor for attitude control of earth satellites or space probes
[NASA-CASE-XGS-00359] c14 N70-34158
Method of producing output voltage from photovoltaic cell using poly-N-vinyl carbazole complexed with iodine
[NASA-CASE-NPO-10373] c03 N71-18698
Use of thin film light detector
[NASA-CASE-NPO-11432-2] c35 N74-15090
Photovoltaic cell array
[NASA-CASE-MFS-22458-1] c44 N77-10635
Method for fabricating solar cells having integral collector grids
[NASA-CASE-LEW-12819-1] c44 N77-24593

PHOTOVOLTAIC EFFECT
Semiconductor in resonant cavity for improving signal to noise ratio of communication receiver
[NASA-CASE-MSC-12259-1] c07 N70-12616
Use of thin film light detector
[NASA-CASE-NPO-11432-2] c35 N74-15090
PHYSICAL EXERCISE
Development of restraint system for securing personnel to ergometer while exercising under weightless conditions
[NASA-CASE-MFS-21046-1] c14 N73-27377
Tilting table for testing human body in variety of positions while exercising on ergometer or other biomedical devices
[NASA-CASE-MFS-21010-1] c05 N73-30078
Manual actuator --- for spacecraft exercising machines
[NASA-CASE-MFS-21481-1] c37 N74-18127
Therapeutic hand exerciser
[NASA-CASE-LAR-11667-1] c52 N76-19785
Tread drum for animals
[NASA-CASE-ARC-10917-1] c37 N76-20485
PHYSICAL PROPERTIES
Chemical and physical properties of synthetic polyurethane polymer prepared by reacting hydroxy carbonate with organic diisocyanate
[NASA-CASE-MFS-10512] c06 N73-30099
PHYSIOLOGICAL EFFECTS
Restraint torso for increased mobility and reduced physiological effects while wearing pressurized suits
[NASA-CASE-MSC-12397-1] c05 N72-25119
PHYSIOLOGICAL TESTS
Vibrophonocardiograph comprising low weight and small volume piezoelectric microphone with amplifier having high input impedance for high sensitivity and low frequency response
[NASA-CASE-XFR-07172] c05 N71-27234
Medical subject monitoring systems --- multichannel monitoring systems
[NASA-CASE-MSC-14180-1] c52 N76-14757
PHYSIOLOGY
Piezoelectric transducer for monitoring sound waves of physiological origin
[NASA-CASE-XMS-05365] c14 N71-22993
Method of detecting and counting bacteria
[NASA-CASE-GSC-11917-2] c51 N76-29891
PIERCING
Pressurized cell micrometeoroid detector
[NASA-CASE-XLA-00936] c14 N71-14996
PIEZOELECTRIC CRYSTALS
Miniature solid state, direction sensitive, stress transducer design with bonded semiconductive piezoresistive element for sensing residual stresses
[NASA-CASE-XNP-02983] c14 N71-21091
Ultra-stable oscillator with complementary transistors
[NASA-CASE-GSC-11513-1] c33 N74-20862
PIEZOELECTRIC TRANSDUCERS
Piezoelectric transducer for detecting and measuring micrometeoroids
[NASA-CASE-XAC-01101] c14 N70-41957
Describing crystal oscillator instrument for detecting condensible gas contaminants in vacuum apparatus
[NASA-CASE-NPO-10144] c14 N71-17701
Piezoelectric transducer for monitoring sound waves of physiological origin
[NASA-CASE-XMS-05365] c14 N71-22993
Miniature piezojunction semiconductor transducer with in situ stress coupling
[NASA-CASE-ERC-10087-2] c14 N72-31446
PIEZOELECTRICITY
Piezoelectric means for missile stage separation indication and stage initiation
[NASA-CASE-XLA-00791] c03 N70-39930
Piezoelectric pump for supplying fluid at high frequencies to gyroscope fluid suspension system
[NASA-CASE-XNP-05429] c26 N71-21824
Miniature electromechanical junction transducer operating on piezojunction effect and utilizing epoxy for stress coupling component
[NASA-CASE-ERC-10087] c14 N71-27334
PIEZORESISTIVE TRANSDUCERS
Miniature solid state, direction sensitive, stress transducer design with bonded semiconductive piezoresistive element for sensing residual stresses
[NASA-CASE-XNP-02983] c14 N71-21091
Solid state force measuring electromechanical transducers made of piezoresistive materials
[NASA-CASE-ERC-10088] c26 N71-25490
PIGMENTS
Binder stabilized zinc oxide pigmented coating for spacecraft thermal control
[NASA-CASE-XMF-07770-2] c18 N71-26772
PILOT ERROR
Spectrally balanced chromatic landing approach lighting system
[NASA-CASE-ARC-10990-1] c04 N77-12031
PILOT TRAINING
Controlled visibility device for simulating poor visibility conditions in training pilots in instrument landing and flight procedures
[NASA-CASE-XFR-04147] c11 N71-10748
Kinesthetic control simulator --- for pilot training
[NASA-CASE-LAR-10276-1] c09 N75-15662
PILOTS (PERSONNEL)
Pilot warning indicator system of intruder aircraft
[NASA-CASE-ERC-10226-1] c14 N73-16483
PINS
Fatigue resistant shear pin with hollow shaft and two plugs
[NASA-CASE-XLA-09122] c15 N69-27505
Blade vibration damping pins for turbomachinery
[NASA-CASE-XLE-00155] c28 N71-29154
Design of quick release locking pin for joining two or more load-carrying structural members
[NASA-CASE-MFS-18495] c15 N72-11385
PINTLES
Describing metal valve pintle with encapsulated elastomeric body
[NASA-CASE-MSC-12116-1] c15 N71-17648
PIPE FLOW
Flat-plate heat pipe
[NASA-CASE-GSC-11998-1] c34 N77-32413
PIPELINES
Flexible bellows joint shielding sleeve for propellant transfer pipelines
[NASA-CASE-XNP-01855] c15 N71-28937
Insulation for piping
[NASA-CASE-MSC-19523-1] c31 N76-16245
PIPES (TUBES)
Capacitance measuring device for determining flare accuracy on tapered tubes
[NASA-CASE-XKS-03495] c14 N69-39785
Low thermal loss piping arrangement for moving cryogenic media through double chamber structure
[NASA-CASE-XNP-08882] c15 N69-39935
Foldable conduit capable of springing back as self erecting structural member
[NASA-CASE-XLE-00620] c32 N70-41579
Mounting fixture for supporting thermobulb in pipeline
[NASA-CASE-NPO-10158] c33 N71-16356
Method and apparatus for shaping and joining large diameter metal tubes using magnetomotive forces
[NASA-CASE-XMF-05114] c15 N71-17650
Sealed separable connection for thin wall metal tube
[NASA-CASE-NPO-10064] c15 N71-17693
Electrical switching device comprising conductive liquid confined within square loop of deformable nonconductive tubing also used for leveling
[NASA-CASE-NPO-10037] c09 N71-19610
Hand tool for forming dimples and nipples on end portion of tubes
[NASA-CASE-XMS-06876] c15 N71-21536
Nonconductive tube as feed system for plasma thrustor
[NASA-CASE-XLE-02902] c25 N71-21694
Apparatus and method for spin forming tubular elbows with high strength, uniform thickness, and close tolerances
[NASA-CASE-XMF-01083] c15 N71-22723
Description of portable milling tool for milling tube or pipe ends to desired shape and thickness
[NASA-CASE-XMF-03511] c15 N71-22799
Gage for measuring internal angle of flare on end of tube
[NASA-CASE-XMF-04415] c14 N71-24693
Method and apparatus for portable high precision magnetomotive bulging, constricting, and

joining of large diameter metal tubes
[NASA-CASE-XMF-05114-3] c15 N71-24865
Portable cutting machine for piping weld preparation
[NASA-CASE-XKS-07953] c15 N71-26134
Method and apparatus for precision sizing and joining of large diameter tubes by bulging or constricting overlapping ends
[NASA-CASE-XMF-05114-2] c15 N71-26148
Collapsible antenna boom and coaxial transmission line having inflatable inner tube
[NASA-CASE-MFS-20068] c07 N71-27191
Process for developing filament reinforced plastic tubes used in research and development programs
[NASA-CASE-LAR-10203-1] c15 N72-16330
Torsional disconnect device for releasably coupling distal ends of fluid conduits
[NASA-CASE-NPO-10704] c15 N72-20445
Open type urine receptacle with tubular housing
[NASA-CASE-MSC-12324-1] c05 N72-22093
Measuring method for cutaneous perception using instrument with elongated tubular housing
[NASA-CASE-MSC-13609-1] c05 N72-25122
Low mass truss structure with elongated thin-walled tubular segments
[NASA-CASE-LAR-10546-1] c11 N72-25287
Honeycomb panels of minimal surface, periodic tubule layers
[NASA-CASE-ERC-10364] c18 N72-25540
Honeycomb core structures of minimum surface tubule sections
[NASA-CASE-ERC-10363] c18 N72-25541
U shaped heated tube for distillation and purification of liquid metals
[NASA-CASE-XNP-08124-2] c06 N73-13129
Cable guide and restraint device for reefing tubes in uniform manner
[NASA-CASE-LAR-10129-1] c15 N73-25512
Twisted wire or tube superconductor for filament windings
[NASA-CASE-LEW-11015] c26 N73-32571
Open tube guideway for high speed air cushioned vehicles
[NASA-CASE-LAR-10256-1] c85 N74-34672
Method for fabricating a mass spectrometer inlet leak
[NASA-CASE-GSC-12077-1] c35 N77-24455

PISTON ENGINES
Stirling cycle engine and refrigeration systems
[NASA-CASE-NPO-13613-1] c37 N76-29590

PISTONS
Automatically reciprocating, high pressure pump for use in spacecraft cryogenic propellants
[NASA-CASE-XNP-04731] c15 N71-24042
Pumping and metering dual piston system and monitor for reaction chamber constituents
[NASA-CASE-GSC-10218-1] c15 N72-21465
Collapsible piston for hypervelocity gun
[NASA-CASE-MSC-13789-1] c11 N73-32152
Airflow control system for supersonic inlets
[NASA-CASE-LEW-11188-1] c02 N74-20646

PITCH (INCLINATION)
Reverse pitch fan with divided splitter
[NASA-CASE-LEW-12760-1] c07 N77-17059

PIVOTS
Apparatus for measuring load on cable under static or dynamic conditions comprising pulleys pivoting structure against restraint of tension strap
[NASA-CASE-XMS-04545] c15 N71-22878

PLANAR STRUCTURES
Window defect planar mapping technique
[NASA-CASE-MSC-19442-1] c74 N77-10899

PLANE WAVES
Characteristics of microwave antenna with conical reflectors to generate plane wave front
[NASA-CASE-NPO-11661] c07 N73-14130

PLANETARY ATMOSPHERES
Planetary atmospheric investigation using split trajectory dual flyby mode
[NASA-CASE-XAC-08494] c30 N71-15990
Wind tunnel method for simulating flow fields around blunt vehicles entering planetary atmospheres without involving high temperatures
[NASA-CASE-LAR-11138] c12 N71-20436
Ablation sensor for measuring surface ablation rate of material on vehicles entering earths atmosphere on entry into planetary atmospheres
[NASA-CASE-ILA-01791] c14 N71-22991

PLANETARY GRAVITATION
Lunar and planetary gravity simulator to test vehicular response to landing
[NASA-CASE-ILA-00493] c11 N70-34786
Table structure and rotating magnet system simulating gravitational forces on spacecraft and displaying trajectories between Earth, Venus, and Mercury
[NASA-CASE-XNP-00708] c14 N70-35394

PLANETARY LANDING
Multiple parachute system for landing control of Apollo type spacecraft
[NASA-CASE-ILA-00898] c02 N70-36804
Payload soft landing system using stowable gas bag
[NASA-CASE-ILA-09881] c31 N71-16085

PLANETARY ORBITS
Self-erectable space structures of flexible foam for application in planetary orbits
[NASA-CASE-ILA-00686] c31 N70-34135
Manned space station collapsible for launching and self-erectable in orbit
[NASA-CASE-ILA-00678] c31 N70-34296

PLANETARY RADIATION
Attitude sensor with scanning mirrors for detecting orientation of space vehicle with respect to planet
[NASA-CASE-ILA-00793] c21 N71-22880

PLANETARY SURFACES
Spacecraft transponder and ground station radar system for mapping planetary surfaces
[NASA-CASE-NPO-11001] c07 N72-21118

PLANTS (BOTANY)
Rotary plant growth accelerating apparatus --- weightlessness
[NASA-CASE-ARC-10722-1] c51 N75-25503

PLASMA ACCELERATION
Increasing available power per unit area in ion rocket engine by increasing beam density
[NASA-CASE-ILE-00519] c28 N70-41576
Coaxial, high density, hypervelocity plasma generator and accelerator using electrodes
[NASA-CASE-MFS-20589] c25 N72-32688

PLASMA ACCELERATORS
Crossed-field plasma accelerator for laboratory simulation of atmospheric reentry conditions
[NASA-CASE-ILA-00675] c25 N70-33267
Continuous operation, single phased, induction plasma accelerator producing supersonic speeds
[NASA-CASE-ILA-01354] c25 N70-36946
Crossed field MHD plasma generator-accelerator
[NASA-CASE-XLA-03374] c25 N71-15562
Direct current powered self repeating plasma accelerator with interconnected annular and linear discharge channels
[NASA-CASE-XLA-03103] c25 N71-21693
Magnetically controlled plasma accelerator capable of ignition in low density gaseous environment
[NASA-CASE-ILA-00327] c25 N71-29184
Two stage light gas-plasma projectile accelerator
[NASA-CASE-MFS-22287-1] c75 N76-14931

PLASMA CONTROL
Superconducting magnetic field trapping device for producing magnetic field in air
[NASA-CASE-XNP-01185] c26 N73-28710
Self-energized plasma compressor --- for compressing plasma discharged from coaxial plasma generator
[NASA-CASE-MFS-22145-1] c75 N75-13625

PLASMA CYLINDERS
Plasma-fluidic hybrid display system combining high brightness and memory characteristics
[NASA-CASE-ERC-10100] c09 N71-33519

PLASMA DENSITY
Apertured electrode focusing system for ion sources with nonuniform plasma density
[NASA-CASE-XNP-03332] c09 N71-10618
Measurement of plasma temperature and density using radiation absorption
[NASA-CASE-ARC-10598-1] c75 N74-30156

PLASMA DIAGNOSTICS
Plasma probes having guard ring and primary sensor at same potential to prevent stray wall current collection in ionized gases
[NASA-CASE-ILE-00690] c25 N69-39884
Apparatus for measuring conductivity and velocity of plasma with multiple sensing coils positioned in plasma

[NASA-CASE-XAC-05695] c25 N71-16073
Measurement of plasma temperature and density using radiation absorption
[NASA-CASE-ARC-10598-1] c75 N74-30156
PLASMA DYNAMICS
Apparatus for measuring conductivity and velocity of plasma with multiple sensing coils positioned in plasma
[NASA-CASE-XAC-05695] c25 N71-16073
Self-energized plasma compressor --- for compressing plasma discharged from coaxial plasma generator
[NASA-CASE-MFS-22145-1] c75 N75-13625
PLASMA ENGINES
Nonconductive tube as feed system for plasma thrustor
[NASA-CASE-XLE-02902] c25 N71-21694
PLASMA GENERATORS
Apparatus for producing highly conductive, high temperature electron plasma with homogenous temperature and pressure distribution
[NASA-CASE-XLA-00147] c25 N70-34661
Crossed field MHD plasma generator-accelerator
[NASA-CASE-XLA-03374] c25 N71-15562
Coaxial, high density, hypervelocity plasma generator and accelerator using electrodes
[NASA-CASE-MFS-20589] c25 N72-32688
Self-energized plasma compressor --- for compressing plasma discharged from coaxial plasma generator
[NASA-CASE-MFS-22145-1] c75 N75-13625
Self-energized plasma compressor
[NASA-CASE-MFS-22145-2] c75 N76-17951
Continuous plasma laser --- method and apparatus for producing intense, coherent, monochromatic light from low temperature plasma
[NASA-CASE-XNP-04167-3] c36 N77-19416
PLASMA GUNS
Plasma spraying gun for forming diffusion bonded metal or ceramic coatings on substrates
[NASA-CASE-XLE-01604-2] c15 N71-15610
PLASMA JETS
Method of preparing water purification membranes --- polymerization of allyl amine as thin films in plasma discharge
[NASA-CASE-ARC-10643-1] c25 N75-12087
Combination automatic-starting electrical plasma torch and gas shutoff valve --- for satellite attitude control
[NASA-CASE-XLE-10717] c37 N75-29426
Plasma cleaning device
[NASA-CASE-MFS-22906-1] c75 N76-24001
PLASMA LAYERS
Electrostatic modulator for communicating through plasma sheath formed around spacecraft during reentry
[NASA-CASE-XLA-01400] c07 N70-41331
Method and apparatus for communicating through ionized layer of gases surrounding spacecraft during reentry into planetary atmospheres
[NASA-CASE-XLA-01127] c07 N70-41372
Reentry communication by injection of water droplets into plasma layer surrounding space vehicle
[NASA-CASE-XLA-01552] c07 N71-11284
PLASMA POTENTIALS
Method and apparatus for measuring potentials in plasmas
[NASA-CASE-XLE-00821] c25 N71-15650
Method and apparatus for neutralizing potentials induced on spacecraft surfaces
[NASA-CASE-GSC-11963-1] c33 N77-10429
PLASMA PROBES
Plasma probes having guard ring and primary sensor at same potential to prevent stray wall current collection in ionized gases
[NASA-CASE-XLE-00690] c25 N69-39884
Small plasma probe using tungsten wire collector in tubular shield
[NASA-CASE-XLE-02578] c25 N71-20747
PLASMA PROPULSION
Method of making dished ion thruster grids
[NASA-CASE-LEW-11694-1] c20 N75-18310
PLASMA RADIATION
Development of method for measuring electron density gradients of plasma sheath around space vehicle during atmospheric entry
[NASA-CASE-XLA-06232] c25 N71-20563
Apparatus for producing monochromatic light from continuous plasma source
[NASA-CASE-XNP-04167-2] c25 N72-24753
PLASMA SHEATHS
Space environment simulation system for measuring spacecraft electric field strength in plasma sheath
[NASA-CASE-XLE-02038] c09 N71-16086
Development of method for measuring electron density gradients of plasma sheath around space vehicle during atmospheric entry
[NASA-CASE-XLA-06232] c25 N71-20563
PLASMA SPRAYING
Flame or plasma spraying for molybdenum coating of carbon or graphite surfaces to prevent oxidative corrosion
[NASA-CASE-XLA-00302] c15 N71-16077
PLASMA TEMPERATURE
Measurement of plasma temperature and density using radiation absorption
[NASA-CASE-ARC-10598-1] c75 N74-30156
PLASMAS (PHYSICS)
Apparatus for measuring conductivity and velocity of plasma with multiple sensing coils positioned in plasma
[NASA-CASE-XAC-05695] c25 N71-16073
PLASTIC COATINGS
Process permitting application of synthetic resin coating to irregular-shaped objects at ambient temperature
[NASA-CASE-XNP-06508] c18 N69-39895
Development and characteristics of system for skin packaging articles using thermoplastic film heating and vacuum operated equipment
[NASA-CASE-MFS-20855] c15 N73-27405
Polymer coatings for moisture protection of optical windows in infrared spectroscopy
[NASA-CASE-ARC-10749-1] c23 N73-32542
Silicon nitride coated, plastic covered solar cell
[NASA-CASE-LEW-11496-1] c44 N77-14580
Low density bismaleimide-carbon microballoon composites
[NASA-CASE-ARC-11040-1] c24 N77-19173
Surface finishing --- of metal airfoils by adhesive bonding
[NASA-CASE-MSC-12631-2] c05 N77-31131
PLASTIC DEFORMATION
Process for analysis of strain field of structures subjected to large deformations involving low modulus substrate with thin coating
[NASA-CASE-LAR-10765-1] c32 N73-20740
PLASTIC TAPES
Development of flexible thermocouple in form of tape for adaptation to special temperature measuring conditions
[NASA-CASE-LEW-11072-1] c14 N73-24472
PLASTICS
Hot forming of plastic sheets
[NASA-CASE-XMS-05516] c15 N71-17803
Technique for making foldable, inflatable, plastic honeycomb core panels for use in building and bridge structures, light and radio wave reflectors, and spacecraft
[NASA-CASE-XLA-03492] c15 N71-22713
Electrode sealing and insulation for fuel cells containing caustic liquid electrolytes using powdered plastic and metal
[NASA-CASE-XMS-01625] c15 N71-23022
Dielectric apparatus for heating, fusing, and hardening of organic matrix to form plastic material into shaped product
[NASA-CASE-LAR-10121-1] c15 N71-26721
Plastic sphere for radar tracking and calibration
[NASA-CASE-XLA-11154] c07 N72-21117
Molding apparatus --- for thermosetting plastic compositions
[NASA-CASE-LAR-10489-2] c31 N74-32920
Ultraviolet and thermally stable polymer compositions
[NASA-CASE-ARC-10592-2] c27 N76-32315
Formulated plastic separators for soluble electrode cells --- rubber-ion trasport sheeting
[NASA-CASE-LEW-12358-1] c44 N77-18560
Oxygen post-treatment of plastic surfaces coated with plasma polymerized silicon-containing monomers
[NASA-CASE-ARC-10915-2] c27 N77-20256

Abrasion resistant coatings for plastic surfaces
[NASA-CASE-ARC-10915-3] c24 N77-24200
PLATES (STRUCTURAL MEMBERS)
Foil seal between parts moving relative to each other
[NASA-CASE-XLE-05130] c15 N69-21362
Fifth wheel
[NASA-CASE-FRC-10081-1] c37 N77-14477
PLATING
Selective plating of etched circuits without removing previous plating
[NASA-CASE-XGS-03120] c15 N71-24047
Metal plating process employing spraying of metallic power/peening particle mixture
[NASA-CASE-GSC-11163-1] c15 N73-32360
Scanning nozzle plating system --- for etching or plating metals on substrates without masking
[NASA-CASE-NPO-11758-1] c31 N74-23065
PLATINUM
Electrolytic cell structure
[NASA-CASE-LAR-11042-1] c33 N75-27252
Platinum resistance thermometer circuit
[NASA-CASE-MSC-12327-1] c35 N77-27368
PLAYBACKS
Method of and means for testing a tape record/playback system
[NASA-CASE-MFS-22671-2] c35 N77-17426
PLENUM CHAMBERS
Platform with several ground effect pads and plenum chambers
[NASA-CASE-MFS-14685] c31 N71-15689
Development of filter apparatus for gas separation and characteristics of filter cell support frame for improved operation
[NASA-CASE-MSC-12297] c14 N72-23457
PLETHYSMOGRAPHY
Readout electrode assembly for measuring biological impedance
[NASA-CASE-ARC-10816-1] c35 N76-24525
PLOTTERS
Plotter device for automatically drawing equipotential lines on sheet of resistance paper
[NASA-CASE-NPO-11134] c09 N72-21246
PLOTTING
Instrument for measuring potentials on two dimensional electric field plot
[NASA-CASE-XLA-08493] c10 N71-19421
PLUG NOZZLES
Cascade plug nozzle --- for jet noise reduction
[NASA-CASE-LAR-11674-1] c07 N76-18117
PLUGS
Rocket chamber leak test fixture using tubular plug
[NASA-CASE-XFR-09479] c14 N69-27503
Fatigue resistant shear pin with hollow shaft and two plugs
[NASA-CASE-XLA-09122] c15 N69-27505
Control of gas flow from pressurized vessel by thermal expansion of metal plug
[NASA-CASE-NPO-10298] c12 N71-17661
Heated porous plug microthruster for spacecraft reaction jet controlled systems such as fuel flow regulation, propellant disassociation, and heat transfer augmentation
[NASA-CASE-GSC-10640-1] c28 N72-18766
PNEUMATIC CONTROL
Pneumatic system for cyclic control of fluid flow in pneumatic device
[NASA-CASE-XMS-04843] c03 N69-21469
Pneumatic control of telescopic mirror support system
[NASA-CASE-XLA-03271] c11 N69-24321
Actuator using compressed gas as driving force to control valve handling large liquid flows
[NASA-CASE-XEQ-01208] c15 N70-35409
Pneumatic mechanism for releasing hook and loop fasteners between large rigid structures
[NASA-CASE-XMS-10660-1] c15 N71-25975
Pneumatic foot pedal operated fluidic exercising device
[NASA-CASE-MSC-11561-1] c05 N73-32014
Pneumatic load compensating or controlling system
[NASA-CASE-ARC-10907-1] c37 N75-32465
PNEUMATIC EQUIPMENT
Development and characteristics of high pressure control valve
[NASA-CASE-MSC-11010] c15 N71-19485
Pneumatic cantilever beams and platform for space erectable structure
[NASA-CASE-XLA-01731] c32 N71-21045
Fluid transferring system design for purging toxic, corrosive, or noxious fluids and fumes from materials handling equipment for cleansing and accident prevention
[NASA-CASE-XMS-01905] c12 N71-21089
Zero gravity apparatus utilizing pneumatic decelerating means to create payload subjected to zero gravity conditions by dropping its height
[NASA-CASE-XNP-06515] c14 N71-23227
Pneumatic servoamplifier for controlling flow regulation
[NASA-CASE-MSC-12121-1] c15 N71-27147
Inflatable stabilizing system for use on life raft to reduce rocking and preclude capsizing
[NASA-CASE-MSC-12393-1] c02 N73-26006
Airlock
[NASA-CASE-MFS-20922-1] c18 N74-22136
Servo valve
[NASA-CASE-LAR-11643-1] c37 N75-13268
Pneumatic load compensating or controlling system
[NASA-CASE-ARC-10907-1] c37 N75-32465
POINT SOURCES
Electronic background suppression field scanning sensor for detecting point source targets
[NASA-CASE-XGS-05211] c07 N69-39980
X ray collimating structure for focusing radiation directly onto detector
[NASA-CASE-XHQ-04106] c14 N70-40240
POINTING CONTROL SYSTEMS
Development of reflector system for application to line-of-sight pointing and tracking telescopes
[NASA-CASE-NPO-10468] c23 N71-33229
Magnetic suspension and pointing system
[NASA-CASE-LAR-11889-1] c19 N76-18227
All sky pointing attitude control system
[NASA-CASE-ARC-10716-1] c35 N77-20399
POLAR ORBITS
Spin phase synchronization of cartwheel satellite in polar orbit
[NASA-CASE-XGS-05579] c31 N71-15676
POLARIMETERS
Automatic polarimeter capable of measuring transient birefringence changes in electro-optic materials
[NASA-CASE-XNP-08883] c23 N71-16101
Two beam interferometer-polarimeter
[NASA-CASE-NPO-11239] c14 N73-12446
Forward-scatter polarimeter for determining the gaseous depolarization factor in the presence of polluting polydispersed particles
[NASA-CASE-NPO-13756-1] c35 N76-14434
POLARITY
Converting output of positive dc voltage source to negative dc voltage across load with common reference point
[NASA-CASE-XNP-08217] c03 N71-23239
Peak polarity selector for monitoring waveforms
[NASA-CASE-FRC-10010] c10 N71-24862
Precision full wave rectifier circuit for rectifying incoming electrical signals having positive or negative polarity with only positive output signals
[NASA-CASE-ARC-10101-1] c09 N71-33109
POLARIZATION (WAVES)
System for interference signal nulling by polarization adjustment
[NASA-CASE-NPO-13140-1] c32 N75-24982
POLARIZED ELECTROMAGNETIC RADIATION
Device for improving efficiency of parabolic horn antenna system for linearly polarized signals
[NASA-CASE-XNP-00611] c09 N70-35219
Device for improving efficiency of parabolic reflector horn for linearly or circularly polarized waves
[NASA-CASE-XNP-00540] c09 N70-35382
POLARIZED LIGHT
Polarization compensator for optical communications
[NASA-CASE-GSC-11782-1] c74 N76-30053
POLARIZERS
Partial polarizer filter
[NASA-CASE-GSC-12225-1] c74 N77-30935
POLISHING
Conforming polisher for aspheric surfaces of revolution with inflatable tube

[NASA-CASE-XGS-02884] c15 N71-22705
POLLUTION CONTROL
System for minimizing internal combustion engine pollution emission
[NASA-CASE-NPO-13402-1] c37 N76-18457
Combustion engine --- for air pollution control
[NASA-CASE-NPO-13671-1] c37 N77-31497
POLLUTION MONITORING
Fluorescence detector for monitoring atmospheric pollutants
[NASA-CASE-NPO-13231-1] c45 N75-27585
Stack plume visualization system
[NASA-CASE-LAR-11675-1] c45 N76-17656
Indicator providing continuous indication of the presence of a specific pollutant in air
[NASA-CASE-NPO-13474-1] c45 N76-21742
Method for detecting pollutants --- through chemical reactions and heat treatment
[NASA-CASE-LAR-11405-1] c45 N76-31714
POLYAMIDE RESINS
Process for producing flame resistant polyamides and products produced thereby
[NASA-CASE-MSC-16074-1] c27 N77-14262
POLYBUTADIENE
Synthesis of polyfluorobutadiene by polymerization of perfluorobutadiene with diisopropyl peroxydicarbonate
[NASA-CASE-NPO-10863] c06 N70-11251
Low pressure perfluorobutadiene polymerization with peroxide catalysts
[NASA-CASE-NPO-10447] c06 N70-11252
POLYCARBONATES
Transparent polycarbonate resin, shell helmet and latch design for high altitude and space flight
[NASA-CASE-XMS-04935] c05 N71-11190
POLYCRYSTALS
Improved low cost substrates for polycrystalline solar cells --- for solar energy conversion
[NASA-CASE-GSC-12022-2] c44 N76-26695
Fabrication of polycrystalline solar cells on low-cost substrates
[NASA-CASE-GSC-12022-1] c44 N76-28635
POLYESTERS
Carboxyl terminated polyester prepolymers and foams produced from prepolymers and materials
[NASA-CASE-NPO-10596] c06 N71-25929
Apparatus for forming drive belts
[NASA-CASE-NPO-13205-1] c31 N74-32917
Flexible formulated plastic separators for alkaline batteries
[NASA-CASE-LEW-12363-1] c44 N76-19552
POLYETHER RESINS
Preparation of stable polyurethane polymer by reacting polymer with diisocyanate
[NASA-CASE-MFS-10506] c06 N73-30100
Preparation of fluorohydroxy ethers by reacting fluoroalkylene oxides with alkali salt of polyfluoroalkylene dicl
[NASA-CASE-MFS-10507] c06 N73-30101
Preparation of fluorinated polyethers from 2-hydro-perhaloiscpropyl alcohols
[NASA-CASE-MFS-11492] c06 N73-30102
Flexible formulated plastic separators for alkaline batteries
[NASA-CASE-LEW-12363-1] c44 N76-19552
POLYIMIDE RESINS
Polyimide adhesives
[NASA-CASE-LAR-11397-1] c27 N75-29263
POLYIMIDES
Stable polyimide synthesis from mixtures of monomeric diamines and polycarboxylic acid esters
[NASA-CASE-LEW-11325-1] c06 N73-27980
Polyimide foam for the thermal insulation and fire protection
[NASA-CASE-ARC-10464-1] c27 N74-12812
Aromatic polyimide preparation --- with low softening temperatures
[NASA-CASE-LAR-11372-1] c27 N74-19772
Reinforced structural plastics
[NASA-CASE-LEW-10199-1] c27 N74-23125
A method of preparing aromatic polyimides having uniquely low softening temperatures
[NASA-CASE-LAR-11828-1] c23 N75-29181
Polyimides of ether-linked aryl tetracarboxylic dianhydrides
[NASA-CASE-MFS-22355-1] c23 N76-15268
Honeycomb-laminate composite structure
[NASA-CASE-ARC-10913-1] c24 N76-26286
Polyimide adhesives
[NASA-CASE-LAR-12181-1] c27 N77-15192
POLYISOBUTYLENE
Chemical process for production of polyisobutylene compounds and application as solid rocket propellant binder
[NASA-CASE-NPO-10893] c27 N73-22710
POLYMER CHEMISTRY
New trifunctional alcohol derived from trimer acid and novel method of preparation
[NASA-CASE-NPO-10714] c06 N69-31244
Synthesis of siloxane containing epoxy polymers with low dielectric properties
[NASA-CASE-MFS-13994-1] c06 N71-11240
Apparatus for determining volatile condensable material present in polymeric products
[NASA-CASE-XNP-09699] c06 N71-24607
Catalytic trimerization of aromatic nitriles and triaryl-s-triazine ring cross-linked high temperature resistant polymers and copolymers made thereby
[NASA-CASE-LEW-12053-1] c27 N74-34579
Polyimide adhesives
[NASA-CASE-LAR-11397-1] c27 N75-29263
POLYMERIC FILMS
Ethylene oxide sterilization and encapsulating process for sterile preservation of instruments and solid propellants
[NASA-CASE-XNP-09763] c14 N71-20461
Hydraulic apparatus for casting and molding of liquid polymers
[NASA-CASE-XNP-07659] c06 N71-22975
Thermodielectric radiometer using polymer film as capacitor
[NASA-CASE-ARC-10138-1] c14 N72-24477
Development and characteristics of system for skin packaging articles using thermoplastic film heating and vacuum operated equipment
[NASA-CASE-MFS-20855] c15 N73-27405
Covered silicon solar cells and method of manufacture --- with polymeric films
[NASA-CASE-LEW-11065-2] c44 N76-14600
Preparation of dielectric coatings of variable dielectric constant by plasma polymerization
[NASA-CASE-ARC-10892-2] c27 N77-17245
A reverse osmosis membrane of high urea rejection properties
[NASA-CASE-ARC-10980-1] c27 N77-18265
Strong thin membrane structure
[NASA-CASE-NPO-14021-1] c27 N77-32313
POLYMERIZATION
Synthesis of polyfluorobutadiene by polymerization of perfluorobutadiene with diisopropyl peroxydicarbonate
[NASA-CASE-NPO-10863] c06 N70-11251
Low pressure perfluorobutadiene polymerization with peroxide catalysts
[NASA-CASE-NPO-10447] c06 N70-11252
Process for interfacial polymerization of pyromellitic dianhydride and tetraamino benzene
[NASA-CASE-XLA-03104] c06 N71-11235
Synthesis and chemical properties of imidazopyrrolone/imide copolymers
[NASA-CASE-XLA-08802] c06 N71-11238
Direct synthesis of polymeric schiff bases from two amines and two aldehydes
[NASA-CASE-XMF-08655] c06 N71-11239
Synthesis of azine polymers for heat shields by azine-aromatic aldehyde reaction
[NASA-CASE-XMF-08656] c06 N71-11242
Synthesis of schiff bases for heat shields by acetal amine reactions
[NASA-CASE-XMF-08652] c06 N71-11243
Preparation of elastomeric diamine silazane polymers
[NASA-CASE-XMF-04133] c06 N71-20717
Reaction of polyperfluoropolyenes with fluorine to produce saturated polymer chain or create reactive sites on chain
[NASA-CASE-NPO-10862] c06 N72-22107
Silphenylenesiloxane polymer with in-chain perfluorcalkyl groups
[NASA-CASE-MFS-20979] c06 N72-25151
Polymerization of perfluorobutadiene
[NASA-CASE-NPO-10863-2] c06 N72-25152
Preparation of fluorohydroxy ethers by reacting fluorcalkylene oxides with alkali salt of

polyfluorcalkylene diol
[NASA-CASE-MFS-10507] c06 N73-30101
Preparation of fluorirated polyethers from 2-hydro-perhaloisopropyl alcohols
[NASA-CASE-MFS-11492] c06 N73-30102
Method of preparing water purification membranes --- polymerization of allyl amine as thin films in plasma discharge
[NASA-CASE-ARC-10643-1] c25 N75-12087
Utilization of oxygen difluoride for syntheses of fluorocyclymers
[NASA-CASE-NPO-12061-1] c27 N76-16228
Polymeric foams from cross-linkable poly-N-arylenebenzimidazoles
[NASA-CASE-ARC-11008-1] c27 N76-28421
Catalytic trimerization of aromatic nitriles and triayl-s-triazine ring cross-linked high temperature resistant polymers and copolymers made thereby
[NASA-CASE-LEW-12053-2] c23 N77-32244

POLYMERS
Preparation of ordered poly/arylenesiloxane/ polymers
[NASA-CASE-XMF-10753] c06 N71-11237
Synthesis of aromatic diamines and dialdehyde polymers using Schiff base
[NASA-CASE-XMF-03074] c06 N71-24740
Automated ball rebound resilience test equipment for determining viscoelastic properties of polymers
[NASA-CASE-XLA-08254] c14 N71-26161
Infusible polymer production from reaction of polyfunctional epoxy resins with polyfunctional aziridine compounds
[NASA-CASE-NPO-10701] c06 N71-28620
Development of solid state polymer coating for obtaining thermal balance in spacecraft components
[NASA-CASE-XLA-01745] c33 N71-28903
Mercaptan terminated polymer containing sulfonic acid salts of nitrosubstituted aromatic amines for heat and moisture resistant coatings
[NASA-CASE-ARC-10325] c06 N72-25147
Solid propellant containing hydrazinium nitroformate oxidizer and polymeric hydrocarbon binder
[NASA-CASE-NPO-12015] c27 N73-16764
Chemical process for production of polyisobutylene compounds and application as solid rocket propellant binder
[NASA-CASE-NPO-10893] c27 N73-22710
Utilization of lithium p-lithiphenoxide to prepare star polymers
[NASA-CASE-NPO-10998-1] c06 N73-32029
Ultraviolet and thermally stable polymer compositions
[NASA-CASE-ARC-10592-1] c27 N74-21156
Ultraviolet and thermally stable polymer compositions
[NASA-CASE-ARC-10592-2] c27 N76-32315
Oil and fat absorbing polymers
[NASA-CASE-NPO-11609-2] c27 N77-31308

POLYSACCHARIDES
Aldehyde-containing urea-absorbing polysaccharides
[NASA-CASE-NPO-13620-1] c27 N77-30236

POLYTETRAFLUOROETHYLENE
Procedure for bonding polytetrafluoroethylene thermal protective sleeves to magnesium alloy conical shell components with different thermal coefficients
[NASA-CASE-XLA-01262] c15 N71-21404
Polymeric electrolytic hygrometer
[NASA-CASE-NPO-13948-1] c35 N77-28470

POLYURETHANE FOAM
Self-erectable space structures of flexible foam for application in planetary orbits
[NASA-CASE-XLA-00686] c31 N70-34135
Modification of polyurethanes with alkyl halide resins, inorganic salts, and encapsulated volatile and reactive halogen for fuel fire control
[NASA-CASE-ARC-10098-1] c06 N71-24739
Flexible fire retardant polyisocyanate modified neoprene foam --- for thermal protective devices
[NASA-CASE-ARC-10180-1] c27 N74-12814
Fiber modified polyurethane foam for ballistic protection
[NASA-CASE-ARC-10714-1] c27 N76-15310
Mixing insert for foam dispensing apparatus
[NASA-CASE-MFS-20607-1] c37 N76-19436
Polymeric foams from cross-linkable poly-N-arylenebenzimidazoles
[NASA-CASE-ARC-11008-1] c27 N76-28421

POLYURETHANE RESINS
Chemical synthesis of hydroxy terminated perfluoro ethers as intermediates for highly fluorinated polyurethane resins
[NASA-CASE-NPO-10768] c06 N71-27254
Formation of polyurethane resins from hydroxy terminated perfluoro ethers
[NASA-CASE-NPO-10768-2] c06 N72-27144
Fluorinated polyurethanes produced by reacting hydroxy terminated perfluoro polyether with diisocyanate
[NASA-CASE-NPO-10767-2] c06 N72-27151
Chemical and physical properties of synthetic polyurethane polymer prepared by reacting hydroxy carbonate with organic diisocyanate
[NASA-CASE-MFS-10512] c06 N73-30099
Preparation of stable polyurethane polymer by reacting polymer with diisocyanate
[NASA-CASE-MFS-10506] c06 N73-30100
Preparation of polyurethane polymer by reacting hydroxy polyformal with organic diisocyanate
[NASA-CASE-MFS-10509] c06 N73-30103
Chemical and elastic properties of fluorinated polyurethanes
[NASA-CASE-NPO-10767-1] c06 N73-33076

PORCELAIN
Refractory porcelain enamel passive control coating for high temperature alloys
[NASA-CASE-MFS-22324-1] c27 N75-27160

POROSITY
Process for making sheets with parallel pores of uniform size
[NASA-CASE-GSC-10984-1] c37 N75-26371

POROUS MATERIALS
Production of refractory bodies with controlled porosity by pressing and heating mixtures of refractory and inert metal powders
[NASA-CASE-LEW-10393-1] c17 N71-15468
Multilayer porous refractory metal ionizer design with thick, porous, large-grain substrates and thin, porous micron-grain substrates
[NASA-CASE-XNP-04338] c17 N71-23046
Lubrication for bearings by capillary action from oil reservoir of porous material
[NASA-CASE-XNP-03972] c15 N71-23048
Method and photodetector device for locating abnormal voids in low density materials
[NASA-CASE-MFS-20044] c14 N71-28993
Production method for manufacturing porous tungsten bodies from tungsten powder particles
[NASA-CASE-XNP-04339] c17 N71-29137
Compressible electrolyte saturated sponge electrode for biomedical applications
[NASA-CASE-MSC-13648] c05 N72-27103
Porous electrode for use in electrochemical cells
[NASA-CASE-GSC-11368-1] c09 N73-32108
Method of making porous conductive supports for electrodes --- by electroforming and stacking nickel foils
[NASA-CASE-GSC-11367-1] c44 N74-19692

POROUS PLATES
Method for producing porous tungsten plates for ionizing cesium compounds for propulsion of ion engines
[NASA-CASE-XLE-00455] c28 N70-38197

PORTABLE EQUIPMENT
Portable electron beam welding chamber
[NASA-CASE-LEW-11531] c15 N71-14932
Portable apparatus producing high velocity annular air column surrounding low velocity, filtered, superclean air central core for industrial clean room environmental control
[NASA-CASE-XNP-03212] c15 N71-22721
Portable cutting machine for piping weld preparation
[NASA-CASE-XMS-07953] c15 N71-26134
Method and apparatus for precision sizing and joining of large diameter tubes by bulging or constricting overlapping ends
[NASA-CASE-XNP-05114-2] c15 N71-26148
Portable cryogenic cooling system design including turbine pump, cooling chamber, and atomizer

[NASA-CASE-NPO-10467] c23 N71-26654
Automatic controlled drive mechanism for portable boring bar
[NASA-CASE-XLA-03661] c15 N71-33518
One hand backpack harness
[NASA-CASE-LAR-10102-1] c05 N72-23085
Portable tester for monitoring bacterial contamination by adenosine triphosphate light reaction
[NASA-CASE-GSC-10879-1] c14 N72-25413
Portable penetrometer for analyzing soil characteristics
[NASA-CASE-MFS-20774] c14 N73-19420
Hand-held, lightweight, portable photomicroscope
[NASA-CASE-ARC-10468-1] c14 N73-33361
System for enhancing tool-exchange capabilities of a portable wrench
[NASA-CASE-MFS-22283-1] c37 N75-33395
Method of peening and portable peening gun
[NASA-CASE-MFS-23047-1] c37 N76-18454
Portable, linear-focused solar thermal energy collecting system
[NASA-CASE-NPO-13734-1] c44 N76-26690

PORTABLE LIFE SUPPORT SYSTEMS
Portable breathing system
[NASA-CASE-MSC-16182-1] c54 N77-21847

PORTS (OPENINGS)
Sealing evacuation port and evacuating vacuum container such as space jackets
[NASA-CASE-XMF-03290] c15 N71-23256

POSITION (LOCATION)
Position locating system for remote aircraft using voice communication and digital signals
[NASA-CASE-GSC-10087-2] c21 N71-13958
Development of telemetry system for position location and data acquisition
[NASA-CASE-GSC-10083-1] c30 N71-16090
Automatic braking device for rapidly transferring humans or materials from elevated location
[NASA-CASE-KKS-07814] c15 N71-27067
System and method for position locating for air traffic control involving supersonic transports
[NASA-CASE-GSC-10087-3] c07 N72-12080
Location identification system with ground based transmitter and aircraft borne receiver/decoder
[NASA-CASE-ERC-10324] c07 N72-25173
System for detecting impact position of cosmic dust on detector surface
[NASA-CASE-GSC-11291-1] c25 N72-33696
Collimator for analyzing spatial location of near and distant sources of radiation
[NASA-CASE-MFS-20546-2] c14 N73-30389
Measuring probe position recorder
[NASA-CASE-LAR-10806-1] c35 N74-32877
Vehicle locating system utilizing AM broadcasting station carriers
[NASA-CASE-NPO-13217-1] c32 N75-26194
Impact position detector for outer space particles
[NASA-CASE-GSC-11829-1] c35 N75-27331
Aircraft-mounted crash-activated transmitter device
[NASA-CASE-MFS-16609-3] c03 N76-32140
Twin-capacitive shaft angle encoder with analog output signal
[NASA-CASE-ARC-10897-1] c33 N77-31404

POSITION INDICATORS
Rocket-borne aspect sensor consisting of radiation sensor, apertured disk, commutator, and counting circuits
[NASA-CASE-XGS-08266] c14 N69-27432
Characteristics and performance of electrical system to determine angular rotation
[NASA-CASE-XMF-00447] c14 N70-33179
Magnetic element position sensing device, using misaligned electromagnets
[NASA-CASE-XGS-07514] c23 N71-16099
Describing angular position and velocity sensing apparatus
[NASA-CASE-XGS-05680] c14 N71-17585
Mosaic semiconductor radiation detector and position indicator systems engineering for low energy particles
[NASA-CASE-XGS-03230] c14 N71-23401
Doppler compensated communication system for locating supersonic transport position
[NASA-CASE-GSC-10087-4] c07 N73-20174
Meteoroid impact position locator aid for manned space station
[NASA-CASE-LAR-10629-1] c35 N75-33367
Position determination systems --- using orbital antenna scan of celestial bodies
[NASA-CASE-MSC-12593-1] c17 N76-21250

POSITIONING
Centering device with ultrafine adjustment for use with roundness measuring apparatus
[NASA-CASE-XMF-00480] c14 N70-39898
Portable device for aligning surfaces of two adjacent wall or sheet sections for joining at point of junction
[NASA-CASE-XMF-01452] c15 N70-41371
Electro-optical/computer system for aligning large structural members and maintaining correct position
[NASA-CASE-XNP-02029] c14 N70-41955
Manual control mechanism for adjusting control rod to null position
[NASA-CASE-XLA-01808] c15 N71-20740
Rotating raster generator
[NASA-CASE-FRC-10071-1] c32 N74-20813

POSITIONING DEVICES (MACHINERY)
Swivel support for gas bearing for position adjustment between ball and supporting cup
[NASA-CASE-XMF-07808] c15 N71-23812
Caterpillar micropositioner for positioning machine tools adjacent to workpiece
[NASA-CASE-GSC-10780-1] c14 N72-16283
Positioning mechanism for converting translatory motion into rotary motion
[NASA-CASE-NPO-10679] c15 N72-21462
Design and development of test stand system for supporting test items in vacuum chamber
[NASA-CASE-MFS-21362] c11 N73-20267
Method and apparatus for optically monitoring the angular position of a rotating mirror
[NASA-CASE-GSC-11353-1] c74 N74-21304
Automatic focus control for facsimile cameras
[NASA-CASE-LAR-11213-1] c35 N75-15014
Reference apparatus for medical ultrasonic transducer
[NASA-CASE-ARC-10753-1] c54 N75-27760
Controlled caging and uncaging mechanism
[NASA-CASE-GSC-11063-1] c37 N77-27400

POSITIVE FEEDBACK
Complementary regenerative transistorized switch circuit employing positive and negative feedback
[NASA-CASE-XGS-02751] c09 N71-23015

POTABLE WATER
Potable water reclamation from human wastes in zero-G environment
[NASA-CASE-XLA-03213] c05 N71-11207
Utilization of solar radiation by solar still for converting salt and brackish water into potable water
[NASA-CASE-XMS-04533] c15 N71-23086
Chlorine generator for purifying water in life support systems of manned spacecraft
[NASA-CASE-XLA-08913] c14 N71-28933
Potable water dispenser
[NASA-CASE-MFS-21115-1] c54 N74-12779
Metering gun for dispensing precisely measured charges of fluid
[NASA-CASE-MFS-21163-1] c54 N74-17853

POTASSIUM SILICATES
Fireproof potassium silicate coating composition, insoluble in water after application
[NASA-CASE-GSC-10072] c18 N71-14014

POTENTIOMETERS (INSTRUMENTS)
Two axis flight controller with potentiometer control shafts directly coupled to rotatable ball members
[NASA-CASE-XFR-04104] c03 N70-42073
Device for controlling rotary potentiometer mounted on aircraft steering wheel or aileron control
[NASA-CASE-XAC-10019] c15 N71-23809
Mechanical function generators with potentiometer as sensing element
[NASA-CASE-XAC-00001] c15 N71-28952
Angle detector
[NASA-CASE-ARC-11036-1] c35 N77-11364

POTTING COMPOUNDS
Removable potting compound for instrument shock protection
[NASA-CASE-XLA-00482] c15 N70-36409
Flexible, repairable, pottable composition for encapsulating electric connectors

[NASA-CASE-XGS-05180] c18 N71-25881
Thermally conductive polymer for potting electrical components
[NASA-CASE-GSC-11304-1] c06 N72-21105
POWDER METALLURGY
Freeze casting of metal ceramic and refractory compound powders into plastic slips
[NASA-CASE-XLE-00106] c15 N71-16076
Production method for manufacturing porous tungsten bodies from tungsten powder particles
[NASA-CASE-XNP-04339] c17 N71-29137
Dry electrode manufacture, using silver powder with cement
[NASA-CASE-FRC-10029-2] c05 N72-25121
Grinding mixtures of powdered metals and inert fillers for conversion to halide
[NASA-CASE-LEW-10450-1] c15 N72-25448
Superalloys from preallcyed powders at high temperatures
[NASA-CASE-LEW-10805-1] c15 N73-13465
Method of heat treating a formed powder product material
[NASA-CASE-LEW-10805-3] c26 N74-10521
Method of forming articles of manufacture from superallcy powders
[NASA-CASE-LEW-10805-2] c37 N74-13179
Cermet composition and method of fabrication --- heat resistant alloys and powders
[NASA-CASE-NPO-13120-1] c27 N76-15311
POWER
Nonequilibrium radiation nuclear reactor
[NASA-CASE-HQN-10841-1] c73 N75-22108
POWER AMPLIFIERS
Characteristics of high power, low distortion, alternating current power amplifier
[NASA-CASE-LAR-10218-1] c09 N70-34559
Power supply with automatic power factor conversion system
[NASA-CASE-XMS-02159] c10 N71-22961
Solid state broadband stable power amplifier
[NASA-CASE-XNP-10854] c10 N71-26331
High efficiency transformerless amplitude modulator coupled to RF power amplifier
[NASA-CASE-GSC-10668-1] c07 N71-28430
Isolated output system for a class D switching-mode amplifier
[NASA-CASE-MFS-21616-1] c33 N75-30429
POWER EFFICIENCY
Low power drain transistor feedback circuit
[NASA-CASE-XGS-04999] c09 N69-24317
Excitation and detection circuitry for flux responsive magnetic head
[NASA-CASE-XNP-04183] c09 N69-24329
Increasing available power per unit area in ion rocket engine by increasing beam density
[NASA-CASE-XLE-00519] c28 N70-41576
Absorbing gas reactivity control system for minimizing power distribution and perturbation in nuclear reactors
[NASA-CASE-XLE-04599] c22 N72-20597
Remote platform power conserving system
[NASA-CASE-GSC-11182-1] c15 N75-13007
POWER GAIN
Serrodyne traveling wave tube reentrant amplifier for synchronous communication satellites operating at microwave frequencies
[NASA-CASE-XGS-01022] c07 N71-16088
Switching circuit for control of cathode ray tube beam with fast rise time for output signal
[NASA-CASE-KSC-10647-1] c10 N72-31273
POWER LIMITERS
Monostable multivibrator for conserving power in spacecraft systems
[NASA-CASE-GSC-10082-1] c10 N72-20221
POWER LINES
Patent data on terminal insert connector for flat electric cables
[NASA-CASE-XMF-00324] c09 N70-34596
Motor run-up system --- power lines
[NASA-CASE-NPO-13374-1] c33 N75-19524
Cable fault locator
[NASA-CASE-KSC-10899-1] c33 N77-28394
POWER SERIES
Describing circuit for obtaining sum of squares of numbers
[NASA-CASE-XGS-04765] c08 N71-18693
Phase modulating with odd and even finite power series of a modulating signal
[NASA-CASE-LAR-11607-1] c32 N77-14292
POWER SPECTRA
Method and apparatus for high resolution power spectrum analysis
[NASA-CASE-NPO-10748] c08 N72-20177
POWER SUPPLIES
Tape recorder designed for low power consumption and resistance to operational failure under high stress conditions
[NASA-CASE-XGS-08259] c14 N71-23698
Current dependent variable inductance for input filter chokes of ac or dc power supplies
[NASA-CASE-ERC-10139] c09 N72-17154
Performance of ac power supply developed for CO2 laser system
[NASA-CASE-GSC-11222-1] c16 N73-32391
High voltage distributor
[NASA-CASE-GSC-11849-1] c33 N76-16342
POWER SUPPLY CIRCUITS
Regulated dc to dc converter
[NASA-CASE-XGS-03429] c03 N69-21330
Power control switching circuit using low voltage semiconductor controlled rectifiers for high voltage isolation
[NASA-CASE-XNP-02713] c10 N69-39888
Increasing power conversion efficiency of electronic amplifiers by power supply switching
[NASA-CASE-XMS-00945] c09 N71-10798
Electric power system utilizing thermionic plasma diodes in parallel and heat pipes as cathodes
[NASA-CASE-XNP-05843] c03 N71-11055
Pulsed energy power system for application of combustible gases to turbine controlling ac voltage generator
[NASA-CASE-MSC-13112] c03 N71-11057
Data processor having multiple sections activated at different times by selective power coupling to sections
[NASA-CASE-XGS-04767] c08 N71-12494
Microwave power receiving antenna solving heat dissipation problems by construction of elements as heat pipe devices
[NASA-CASE-MFS-20333] c09 N71-13486
Design, development, and operating principles of power supply with starting circuit which is independent of voltage regulator
[NASA-CASE-XMS-01991] c09 N71-21449
Power supply with automatic power factor conversion system
[NASA-CASE-XMS-02159] c10 N71-22961
Electric circuit for reversing direction of current flow
[NASA-CASE-XNP-00952] c10 N71-23271
Power supply with overload protection for series stage transistor
[NASA-CASE-XMS-00913] c10 N71-23543
Automatic power supply circuit design for driving inductive loads and minimizing power consumption including solenoid example
[NASA-CASE-NPO-10716] c09 N71-24892
Unsaturating magnetic core transformer design with warning signal for electrical power processing equipment
[NASA-CASE-ERC-10125] c09 N71-24893
Device for monitoring voltage by generating signal when voltages drop below predetermined value
[NASA-CASE-KSC-10020] c10 N71-27338
Power point tracker for maintaining optimal output voltage of power source
[NASA-CASE-GSC-10376-1] c14 N71-27407
Microwave power divider for providing variable output power to output waveguide in fixed waveguide system
[NASA-CASE-NPO-11031] c07 N71-33606
Circuit for monitoring power supply by ripple current indication
[NASA-CASE-KSC-10162] c09 N72-11225
Dc to ac to dc converter with transistor driven synchronous rectifiers
[NASA-CASE-GSC-11126-1] c09 N72-25253
LC-oscillator with automatic stabilized amplitude via bias current control --- power supply circuit for transducers
[NASA-CASE-MFS-21698-1] c33 N74-26732
Integrable power gyrator --- with Z-matrix design using parallel transistors
[NASA-CASE-MFS-22342-1] c33 N75-30426

Control for nuclear thermionic power source --- power supply circuits, energy policy
[NASA-CASE-NPO-13114-2] c44 N76-15573
The dc-to-dc converters employing staggered-phase power switches with two-loop control
[NASA-CASE-NPO-13512-1] c33 N77-10428
Overload protection system for power inverter
[NASA-CASE-NPO-13872-1] c33 N77-17359
Circuit for automatic load sharing in parallel converter modules
[NASA-CASE-NPO-14056-1] c33 N77-32402

PRECESSION
Dynamic precession damping of spin-stabilized vehicles by using rate gyroscope and angular accelerometer
[NASA-CASE-XLA-01989] c21 N70-34295

PRECIPITATION (CHEMISTRY)
Production of pure metals
[NASA-CASE-LEW-10906-1] c25 N74-30502

PRECISION
Precision stepping drive device using cam disk
[NASA-CASE-MFS-14772] c15 N71-17692
Method and apparatus for precision sizing and joining of large diameter tubes by bulging or constricting overlapping ends
[NASA-CASE-XMF-05114-2] c15 N71-26148

PREFLIGHT OPERATIONS
Automatic balancing device for use on frictionless supported attitude-controlled test platforms
[NASA-CASE-LAR-10774] c10 N71-13545

PRELAUNCH TESTS
Low loss parasitic probe antenna for prelaunch tests of spacecraft antennas
[NASA-CASE-XKS-09348] c09 N71-13521
Digital computer system for automatic prelaunch checkout of spacecraft
[NASA-CASE-XKS-08012-2] c31 N71-15566

PREPOLYMERS
Carboxyl terminated polyester prepolymers and foams produced from prepolymers and materials
[NASA-CASE-NPO-10596] c06 N71-25929

PRESSURE
Strain gage mounting assembly
[NASA-CASE-NPO-13170-1] c35 N76-14430

PRESSURE CHAMBERS
Triggering system for electric arc driven impulse wind tunnel
[NASA-CASE-XMF-00411] c11 N70-36913
Whole body measurement systems --- for weightlessness simulation
[NASA-CASE-MSC-13972-1] c52 N74-10975
Accumulator
[NASA-CASE-MFS-19287-1] c34 N77-30399

PRESSURE DISTRIBUTION
Piston device for producing known constant positive pressure within lungs by using thoracic muscles
[NASA-CASE-XMS-01615] c05 N70-41329
Preventing pressure buildup in electrochemical cells by reacting palladium oxide with evolved hydrogen
[NASA-CASE-XGS-01419] c03 N70-41864
Accumulator
[NASA-CASE-MFS-19287-1] c34 N77-30399
A seat cushion to provide realistic acceleration cues for aircraft simulator pilots
[NASA-CASE-LAR-12149-1] c54 N77-31787

PRESSURE DROP
Leak detector
[NASA-CASE-MFS-21761-1] c35 N75-15931

PRESSURE EFFECTS
System for stabilizing cable phase delay utilizing a coaxial cable under pressure
[NASA-CASE-NPO-13138-1] c33 N74-17927
Evacuated, displacement compression mold --- of tubular bodies from thermosetting plastics
[NASA-CASE-LAR-10782-2] c31 N75-13111
Internally supported flexible duct joint --- device for conducting fluids in high pressure systems
[NASA-CASE-MFS-19193-1] c37 N75-19686

PRESSURE GAGES
Differential pressure cell insensitive to changes in ambient temperature and extreme overload
[NASA-CASE-XAC-00042] c14 N70-34816
Blood pressure measuring system for separately recording dc and ac pressure signals of Korotkoff sounds
[NASA-CASE-XMS-06061] c05 N71-23317
Control system for pressure balance device used in calibrating pressure gages
[NASA-CASE-XMF-04134] c14 N71-23755
Improved McLeod gage for pressure measurement
[NASA-CASE-XAC-04458] c14 N71-24232
Ultrahigh vacuum gauge with two collector electrodes
[NASA-CASE-LAR-02743] c14 N73-32324

PRESSURE GRADIENTS
Positive displacement flowmeter for measuring extremely low flows of fluid with self calibrating features
[NASA-CASE-XMF-02822] c14 N70-41994

PRESSURE MEASUREMENTS
Design and development of inertia diaphragm pressure transducer
[NASA-CASE-XAC-02981] c14 N71-21072
Design and development of pressure sensor for measuring differential pressures of few pounds per square inch
[NASA-CASE-XMF-01974] c14 N71-22752
Improved McLeod gage for pressure measurement
[NASA-CASE-XAC-04458] c14 N71-24232
Coherent light beam device and method for measuring gas density in vacuum chambers
[NASA-CASE-XER-11203] c14 N71-28994
Design, development, and characteristics of pressure and temperature sensor operating immersed in fluid flow
[NASA-CASE-LEW-10281-1] c14 N72-17327
Calibration of vacuum gauges for measuring total and partial pressures in ultrahigh vacuum region
[NASA-CASE-XGS-07752] c14 N73-30390
Absolute pressure measuring device for measuring gas density level in high vacuum range
[NASA-CASE-LAR-10000] c14 N73-30394
Wind tunnel model and method
[NASA-CASE-LAR-10812-1] c09 N74-17955
Indicated mean effective pressure instrument (IMEP)
[NASA-CASE-LEW-12661-1] c35 N77-32461

PRESSURE REDUCTION
Relief valve to permit slow and fast bleeding rates at difference pressure levels
[NASA-CASE-XMS-05894-1] c15 N69-21924
Sealed electric storage battery with gas manifold interconnecting each cell
[NASA-CASE-XNP-03378] c03 N71-11051
Depressurization of arc lamps
[NASA-CASE-NPO-10790-1] c33 N77-21316

PRESSURE REGULATORS
Pressure regulating system with high pressure fluid source, adapted to maintain constant downstream pressure
[NASA-CASE-XNP-00450] c15 N70-38603
Pulmonary resuscitation method and apparatus with adjustable pressure regulator
[NASA-CASE-XMS-01115] c05 N70-39922
Structural design of high pressure regulator valve
[NASA-CASE-XNP-00710] c15 N71-10778
Space suit with pressure-volume compensator system
[NASA-CASE-XLA-05332] c05 N71-11194
Portable environmental control and life support system for astronaut in and out of spacecraft
[NASA-CASE-XMS-09632-1] c05 N71-11203
Antibacklash circuit for hydraulic drive system
[NASA-CASE-XNP-01020] c03 N71-12260
High impact pressure regulator having minimum number of lightweight movable elements
[NASA-CASE-NPO-10175] c14 N71-18625
Pressure regulator for space suit worn underwater to simulate space environment for testing and experimentation
[NASA-CASE-MFS-20332] c05 N72-20097
Underwater space suit pressure control regulator
[NASA-CASE-MFS-20332-2] c05 N73-25125
Combined pressure regulator and shutoff valve
[NASA-CASE-NPO-13201-1] c37 N75-15050
Flow compensating pressure regulator --- for ophthalmic applications
[NASA-CASE-LEW-12718-1] c35 N77-20408
Pressure modulating value
[NASA-CASE-MSC-14905-1] c37 N77-28487

PRESSURE SENSORS
Fabrication of pressure-telemetry transducers

[NASA-CASE-XNP-09752] c14 N69-21541
Pressure probe for sensing ambient static air pressures
[NASA-CASE-XLA-00481] c14 N70-36824
Ambient atmospheric pressure sensing device for determining altitude of flight vehicles
[NASA-CASE-XLA-00128] c15 N70-37925
Dynamic sensor for gas pressure or density measurement
[NASA-CASE-XAC-02877] c14 N70-41681
Design and development of inertia diaphragm pressure transducer
[NASA-CASE-XAC-02981] c14 N71-21072
Design and development of pressure sensor for measuring differential pressures of few pounds per square inch
[NASA-CASE-XMF-01974] c14 N71-22752
Combination pressure transducer-calibrator assembly for measuring fluid
[NASA-CASE-XNP-01660] c14 N71-23036
Pressure sensor network for measuring liquid dynamic response in flight including fuel tank acceleration, liquid slosh amplitude, and fuel depth monitoring
[NASA-CASE-XLA-05541] c12 N71-26387
Miniature electromechanical junction transducer operating on piezojunction effect and utilizing epoxy for stress coupling component
[NASA-CASE-ERC-10087] c14 N71-27334
Method for making pressurized meteoroid penetration detector panels
[NASA-CASE-XLA-08916] c15 N71-29018
Design, development, and characteristics of pressure and temperature sensor operating immersed in fluid flow
[NASA-CASE-LEW-10281-1] c14 N72-17327
Pressure transducer for systems for measuring forces of compression
[NASA-CASE-NPO-10832] c14 N72-21405
Pressure operated electrical switch responsive to pressure decrease after pressure increase
[NASA-CASE-LAR-10137-1] c09 N72-22204
Wide range dynamic pressure sensor with vibrating diaphragm for measuring density and pressure of gaseous environment
[NASA-CASE-ARC-10263-1] c14 N72-22438
Development of differential pressure control system using motion of mechanical diaphragms to operate electric switch
[NASA-CASE-MFS-14216] c14 N73-13418
System for calibrating pressure transducer
[NASA-CASE-LAR-10910-1] c35 N74-13132
Stagnation pressure probe --- for measuring pressure of supersonic gas streams
[NASA-CASE-LAR-11139-1] c35 N74-32878
Circuit for detecting initial systole and dicrotic notch --- for monitoring arterial pressure
[NASA-CASE-LEW-11581-1] c54 N75-13531
Leak detector
[NASA-CASE-MFS-21761-1] c35 N75-15931
Measurement of gas production of microorganisms --- using pressure sensors
[NASA-CASE-LAR-11326-1] c35 N75-33368
Static pressure probe
[NASA-CASE-LAR-11552-1] c35 N76-14429
Trielectrode capacitive pressure transducer
[NASA-CASE-ARC-10711-2] c33 N76-21390
Catheter tip force transducer for cardiovascular research
[NASA-CASE-NPO-13643-1] c52 N76-29896
Miniature biaxial strain transducer
[NASA-CASE-LAR-11648-1] c35 N77-14407
Optically selective, acoustically resonant gas detecting transducer
[NASA-CASE-ARC-10639-1] c35 N77-19388

PRESSURE SUITS
Helmet and torso tiedown mechanism for shortening pressure suits upon inflation
[NASA-CASE-XMS-00784] c05 N71-12335
Design and development of flexible joint for pressure suits
[NASA-CASE-XMS-09636] c05 N71-12344
Cord restraint system for pressure suit joints
[NASA-CASE-XMS-09635] c05 N71-24623
Development of improved convolute section for pressurized suits to provide high degree of mobility in response to minimum of applied torque
[NASA-CASE-XMS-09637-1] c05 N71-24730
Fabrication of root cord restrained fabric suit sections from sheets of fabric
[NASA-CASE-MSC-12398] c05 N72-20098
Restraint torso for increased mobility and reduced physiological effects while wearing pressurized suits
[NASA-CASE-MSC-12397-1] c05 N72-25119
Flexible joint for pressurizable garment
[NASA-CASE-MSC-11072] c54 N74-32546
A walking boot assembly
[NASA-CASE-ARC-11101-1] c54 N77-14742

PRESSURE SWITCHES
Reinforcing beam system for highly flexible diaphragms in valves or pressure switches
[NASA-CASE-XNP-01962] c32 N70-41370

PRESSURE VESSELS
Liquid rocket systems for propulsion and control of spacecraft
[NASA-CASE-XNP-00610] c28 N70-36910
Thin walled pressure test vessel using low-melting alloy-filled joint to attach shell to heads
[NASA-CASE-XLE-04677] c15 N71-10577
Control of gas flow from pressurized vessel by thermal expansion of metal plug
[NASA-CASE-NPO-10298] c12 N71-17661
Method and apparatus for inducing compressive stresses in pressure vessel to prevent stress corrosion
[NASA-CASE-XLA-07390] c15 N71-18616
Heater-mixer for stored fluids
[NASA-CASE-ARC-10442-1] c35 N74-15093
Method and apparatus for nondestructive testing of pressure vessels
[NASA-CASE-NPO-12142-1] c38 N76-28563

PRESSURE WELDING
Diffusion welding --- heat treatment of nickel alloys following single step vacuum welding process
[NASA-CASE-LEW-11388-2] c37 N74-21055

PRESTRESSING
Prestressed rocket nozzle with ceramic inner rings and refractory metal outer rings
[NASA-CASE-XNP-02888] c18 N71-21068

PRETREATMENT
Anti-wettable materials brazing processes using titanium and zirconium for surface pretreatment
[NASA-CASE-XMS-03537] c15 N69-21471

PRINTED CIRCUITS
Electrical feedthrough connection for printed circuit boards
[NASA-CASE-XMF-01483] c14 N69-27431
Electric connector for printed cable to printed cable or to printed board
[NASA-CASE-XMF-00369] c09 N70-36494
Electrical connection for printed circuits on common board, using bellows principle in rivet
[NASA-CASE-XNP-05082] c15 N70-41960
Electrical spot terminal assembly for printed circuit boards
[NASA-CASE-NPO-10034] c15 N71-17685
Solder coating process for printed copper circuit protection
[NASA-CASE-XMF-01599] c09 N71-20705
Handling tool for printed circuit cards
[NASA-CASE-MFS-20453] c15 N71-29133
Development and characteristics of polyimide impregnated laminates with fiberglass cloth backing for application as printed circuit broads
[NASA-CASE-MFS-20408] c18 N73-12604
Techniques for packaging and mounting printed circuit boards
[NASA-CASE-MFS-21919-1] c10 N73-25243
Device for configuring multiple leads --- method for connecting electric leads to printed circuit board
[NASA-CASE-MFS-22133-1] c33 N74-26977
Connector --- for connecting circuits on different layers of multilayer printed circuit boards
[NASA-CASE-LAR-11709-1] c37 N76-27567
Controlled caging and uncaging mechanism
[NASA-CASE-GSC-11063-1] c37 N77-27400
A solar array strip and a method for forming the same
[NASA-CASE-NPO-13652-1] c44 N77-28585

PRINTING
Application of semiconductor diffusants to solar cells by screen printing
[NASA-CASE-LEW-12775-1] c44 N77-24589
PRINTOUTS
Handling tool for printed circuit cards
[NASA-CASE-MFS-20453] c15 N71-29133
PRISMS
Interferometer prism and control system for precisely determining direction to remote light source
[NASA-CASE-ARC-10278-1] c14 N73-25463
PROBES
Method and apparatus for connecting two spacecraft with probe of one inserted in rocket engine nozzle of other spacecraft
[NASA-CASE-MFS-11133] c31 N71-16222
Development of droplet monitoring probe for use in analysis of droplet propagation in mixed-phase fluid stream
[NASA-CASE-NPO-10985] c14 N73-20478
PRODUCT DEVELOPMENT
Using molds for fabricating individual fluid circuit components
[NASA-CASE-XLA-07829] c15 N72-16329
Process for developing filament reinforced plastic tubes used in research and development programs
[NASA-CASE-LAR-10203-1] c15 N72-16330
Simplified technique and device for producing industrial grade synthetic diamonds
[NASA-CASE-MFS-20698-2] c15 N73-19457
High power laser apparatus and system
[NASA-CASE-XLE-2529-2] c36 N75-27364
Ceramic fiber insulating material and methods of producing same --- product development of foams for thermal insulation
[NASA-CASE-MSC-14795-1] c27 N76-15314
Spherical bearing
[NASA-CASE-MFS-23447-1] c37 N77-11403
PRODUCTION ENGINEERING
Standard coupling design for mass production
[NASA-CASE-XMS-02532] c15 N70-41808
Fabrication of curved reflector segments for solar mirror
[NASA-CASE-XLE-08917] c15 N71-15597
Production of barium fluoride-calcium fluoride composite lubricant for bearings or seals
[NASA-CASE-XLE-08511-2] c18 N71-16105
Fabrication of sintered impurity semiconductor brushes for electrical energy transfer
[NASA-CASE-XMF-01016] c26 N71-17818
Technique for making foldable, inflatable, plastic honeycomb core panels for use in building and bridge structures, light and radio wave reflectors, and spacecraft
[NASA-CASE-XLA-03492] c15 N71-22713
Multilayer porous refractory metal ionizer design with thick, porous, large-grain substrates and thin, porous micron-grain substrates
[NASA-CASE-XNP-04338] c17 N71-23046
Permanently magnetized ion engine casing construction for use in spacecraft propulsion systems
[NASA-CASE-XNP-06942] c28 N71-23293
Dry electrode design with wire sandwiched between two flexible conductive discs for monitoring physiological responses
[NASA-CASE-FRC-10029] c09 N71-24618
Production method of star tracking reticles for transmitting in visible and near ultraviolet regions
[NASA-CASE-GSC-11188-1] c14 N73-32320
Process for making sheets with parallel pores of uniform size
[NASA-CASE-GSC-10984-1] c37 N75-26371
Strong thin membrane structure
[NASA-CASE-NPO-14021-1] c27 N77-32313
PROJECTILES
Self-obturating gas-operated launcher for launching projectiles in decontaminated medium
[NASA-CASE-NPO-11013] c11 N72-22247
Two stage light gas-plasma projectile accelerator
[NASA-CASE-MFS-22287-1] c75 N76-14931
PROJECTION
Projection system for display of parallax and perspective
[NASA-CASE-MFS-23194-1] c74 N76-13909
PROJECTIVE GEOMETRY
Projection system for display of parallax and perspective
[NASA-CASE-MFS-23194-1] c74 N76-13909
PROJECTORS
Optical projector system for establishing optimum arrangement of instrument displays in aircraft, spacecraft, other vehicles, and industrial instrument consoles
[NASA-CASE-XNP-03853] c23 N71-21882
PROPAGATION MODES
Dual waveguide mode source for controlling amplitudes of two modes
[NASA-CASE-XNP-03134] c07 N71-10676
PROPELLANT BINDERS
Chemical process for production of polyisobutylene compounds and application as solid rocket propellant binder
[NASA-CASE-NPO-10893] c27 N73-22710
PROPELLANT CASTING
Casting propellant in rocket engine
[NASA-CASE-LAR-11995-1] c28 N77-10213
Solid propellant rocket motor and method of making same
[NASA-CASE-XLA-1349] c20 N77-17143
PROPELLANT COMBUSTION
Spherical solid propellant rocket engine having abrupt burnout
[NASA-CASE-XHQ-01897] c28 N70-35381
Rocket combustion chamber stability by controlling transverse instability during propellant combustion
[NASA-CASE-XLE-04603] c33 N71-21507
PROPELLANT DECOMPOSITION
Unit for generating thrust from catalytic decomposition of hydrogen peroxide, for high altitude aircraft or spacecraft reaction control
[NASA-CASE-XMS-00583] c28 N70-38504
PROPELLANT GRAINS
Grain configuration for solid propellant rocket engines
[NASA-CASE-XGS-03556] c27 N70-35534
PROPELLANT TANKS
Liquid rocket systems for propulsion and control of spacecraft
[NASA-CASE-XNP-00610] c28 N70-36910
Slosh damping method for liquid rocket propellant tanks
[NASA-CASE-XMF-00658] c12 N70-38997
Expulsion and measuring device for determining quantity of liquid in tank under conditions of weightlessness
[NASA-CASE-XMS-01546] c14 N70-40233
Collapsible auxiliary tank for restarting liquid propellant rocket motors under zero gravity
[NASA-CASE-XNP-01390] c28 N70-41275
Liquid propellant tank design with semitoroidal bulkhead
[NASA-CASE-XMF-01899] c31 N70-41948
Microleak detector mounted on weld seam of propellant tank of launch vehicle
[NASA-CASE-XMF-02307] c14 N71-10779
Fabrication of filament wound propellant tank for cryogenic storage
[NASA-CASE-XLE-03803-2] c15 N71-17651
Slosh and swirl alleviator for liquid propellant tanks during transport and flight
[NASA-CASE-XLA-05749] c15 N71-19569
Two phase fluid pressurization system for propellant tank
[NASA-CASE-MSC-12390] c27 N71-29155
Space vehicle system
[NASA-CASE-MSC-12561-1] c18 N76-17185
PROPELLANT TRANSFER
Two component valve assembly for cryogenic liquid transfer regulation
[NASA-CASE-XLE-00397] c15 N70-36492
Apparatus for cryogenic liquid storage with heat transfer reduction and for liquid transfer at zero gravity conditions
[NASA-CASE-XLE-00345] c15 N70-38020
Continuous variation of propellant flow and thrust by application of liquid foam flow theory to injection orifice
[NASA-CASE-XLE-00177] c28 N70-40367
Method and feed system for separating and orienting liquid and vapor phases of liquid propellants in zero gravity environment
[NASA-CASE-XLE-01182] c27 N71-15635

Electron bombardment ion rocket engine with improved propellant introduction system
[NASA-CASE-XLE-02066] c28 N71-15661
Rocket combustion chamber stability by controlling transverse instability during propellant combustion
[NASA-CASE-XLP-04603] c33 N71-21507
Vapor-liquid separator design with vapor driven pump for separated liquid pumping for application in propellant transfer
[NASA-CASE-XNP-04042] c15 N71-23023
Filler valve design for supplying liquid propellants at high pressure to space vehicles
[NASA-CASE-XNP-01747] c15 N71-23024
Internal labyrinth and shield structure to improve electrical isolation of propellant feed source from ion thrustor
[NASA-CASE-LEW-10210-1] c28 N71-26781
Flexible bellows joint shielding sleeve for propellant transfer pipelines
[NASA-CASE-XNP-01855] c15 N71-28937

PROPELLER BLADES
Directed fluid stream for propeller blade loading control
[NASA-CASE-XAC-00139] c02 N70-34856

PROPORTIONAL CONTROL
Proportional controller for regulating aircraft or spacecraft motion about three axes
[NASA-CASE-XAC-03392] c03 N70-41954

PROPULSION SYSTEM CONFIGURATIONS
Electrothermal rocket engine using resistance heated heat exchanger
[NASA-CASE-XLE-00267] c28 N70-33356
Grain configuration for solid propellant rocket engines
[NASA-CASE-XGS-03556] c27 N70-35534
Shrouded composite propulsion system configuration
[NASA-CASE-XLA-01043] c28 N71-10780
Electrostatic microthrust propulsion system with annular slit colloid thrustor
[NASA-CASE-GSC-10709-1] c28 N71-25213
Method and apparatus for pressurizing propellant tanks used in propulsion motor feed system
[NASA-CASE-XNP-00650] c27 N71-28929

PROSTHETIC DEVICES
Prosthetic limb with tactile sensing device
[NASA-CASE-MFS-16570-1] c05 N73-32013
Orthotic arm joint --- for use in mechanical arms
[NASA-CASE-MFS-21611-1] c54 N75-12616
Graphite reinforced bone cement
[NASA-CASE-NPO-13764-1] c24 N76-26281
An artificial leg employing a mechanical energy storage device for hip disarticulation
[NASA-CASE-ARC-10916-1] c54 N76-26871
Actuator device for artificial leg
[NASA-CASE-MFS-23225-1] c52 N77-14735
Aldehyde-containing urea-absorbing polysaccharides
[NASA-CASE-NPO-13620-1] c27 N77-30236
Rotational joint assembly for the prosthetic leg
[NASA-CASE-KSC-11004-1] c54 N77-30749
Compact artificial hand
[NASA-CASE-NPO-13906-1] c54 N77-32723

PROTECTION
Camera protecting device for use in photographing rocket engine nozzles or other engine components
[NASA-CASE-NPO-10174] c14 N71-18465
Fiber modified polyurethane foam for ballistic protection
[NASA-CASE-ARC-10714-1] c27 N76-15310

PROTECTIVE CLOTHING
Conditioning tanned sharkskin for use as abrasive resistant clothing
[NASA-CASE-XMS-09691-1] c18 N71-15545
One piece human garment for use as contamination proof garment
[NASA-CASE-MSC-12206-1] c05 N71-17599
Thermoregulating with cooling flow pipe network for humans
[NASA-CASE-XMS-10269] c05 N71-24147
Development of improved convolute section for pressurized suits to provide high degree of mobility in response to minimum of applied torque
[NASA-CASE-XMS-09637-1] c05 N71-24730
Voice operated receiving and transmitting system for use in protective suits
[NASA-CASE-KSC-10164] c07 N71-33108

PROTECTIVE COATINGS
Process permitting application of synthetic resin coating to irregular-shaped objects at ambient temperature
[NASA-CASE-XNP-06508] c18 N69-39895
Ultraviolet radiation resistant alkali-metal silicate coatings for temperature control of spacecraft
[NASA-CASE-XGS-04119] c18 N69-39979
Application techniques for protecting materials during salt bath brazing
[NASA-CASE-XLE-00046] c15 N70-33311
Removable potting compound for instrument shock protection
[NASA-CASE-XLA-00482] c15 N70-36409
Passive thermal control coating on aluminum foil laminate for inflatable spacecraft surfaces
[NASA-CASE-XLA-01291] c33 N70-36617
Using ethylene oxide in preparation of sterilized solid rocket propellants and encapsulating materials
[NASA-CASE-XNP-01749] c27 N70-41897
Fireproof potassium silicate coating composition, insoluble in water after application
[NASA-CASE-GSC-10072] c18 N71-14014
Development of bacteriostatic conformal coating and methods of application
[NASA-CASE-GSC-10007] c18 N71-16046
Vapor deposited laminated nitride-silicon coating for corrosion prevention of carbonaceous surfaces
[NASA-CASE-XLA-00284] c15 N71-16075
Flame or plasma spraying for molybdenum coating of carbon or graphite surfaces to prevent oxidative corrosion
[NASA-CASE-XLA-00302] c15 N71-16077
Development and characteristics of protective coatings for spacecraft
[NASA-CASE-XNP-02507] c31 N71-17679
Development of thermal insulation system for wing and control surfaces of hypersonic aircraft and reentry vehicles
[NASA-CASE-XLA-00892] c33 N71-17897
Bismuth and lead surface coatings for gas bearings in aerospace engineering
[NASA-CASE-XGS-02011] c15 N71-20739
Composition and production method of alkali metal silicate paint with ultraviolet reflection properties
[NASA-CASE-XGS-04799] c18 N71-24183
Method for treating metal surfaces to prevent secondary electron transmission
[NASA-CASE-XNP-09469] c24 N71-25555
Development of solid state polymer coating for obtaining thermal balance in spacecraft components
[NASA-CASE-XLA-01745] c33 N71-28903
Method for coating through-holes in ceramic substrates used in fabricating miniaturized electronic circuits
[NASA-CASE-XNP-05999] c15 N71-29032
Zinc dust formulation for abrasion resistant steel coatings
[NASA-CASE-GSC-10361-1] c18 N72-23581
Development of process for constructing protective covers for solar cells
[NASA-CASE-GSC-11514-1] c03 N72-24037
Resin for protecting p-n semiconductor junction surface
[NASA-CASE-ERC-10339-1] c18 N73-30532
Nonflammable coating compositions --- for use in high oxygen environments
[NASA-CASE-MFS-20486-2] c27 N74-17283
Fused silicide coatings containing discrete particles for protecting niobium alloys --- used in space shuttle thermal protection systems and turbine engine components
[NASA-CASE-LEW-11179-1] c27 N76-16229
Thermal barrier coating system
[NASA-CASE-LEW-12554-1] c24 N76-23359
Extreme temperature thermal control coating
[NASA-CASE-LAR-11756-1] c24 N76-26284
Reaction cured glass and glass coatings
[NASA-CASE-ARC-11051-1] c27 N77-10201
Intumescent coating containing 4,4'-dinitrosulfanilide
[NASA-CASE-ARC-11042-1] c24 N77-11119

High temperature oxidation resistant cermet compositions
[NASA-CASE-NPO-13666-1] c27 N77-13217
Intumescent-ablator coatings using endothermic fillers
[NASA-CASE-ARC-11043-1] c34 N77-14372
Sprayable low density ablator
[NASA-CASE-MFS-23506-1] c24 N77-15105
Leading edge protection for composite blades
[NASA-CASE-LEW-12550-1] c24 N77-19170
Apparatus for automatically spraying a coating material
[NASA-CASE-MFS-23506-2] c37 N77-20441
Durable antistatic coating for polymethylmethacrylate
[NASA-CASE-NPO-13867-1] c27 N77-22257
Abrasion resistant coatings for plastic surfaces
[NASA-CASE-ARC-10915-3] c24 N77-24200

PROTECTORS
Load cell protection device using spring-loaded breakaway mechanism
[NASA-CASE-MMS-06782] c32 N71-15974
Payload soft landing system using stowable gas bag
[NASA-CASE-XLA-09881] c31 N71-16085

PROTEINS
Protein sterilization of firefly luciferase without denaturation
[NASA-CASE-GSC-10225-1] c06 N73-27086

PROTON FLUX DENSITY
Flame detector operable in presence of proton radiation
[NASA-CASE-MFS-21577-1] c19 N74-29410

PSEUDONOISE
System designed to reduce time required for obtaining synchronization in data communication with spacecraft utilizing pseudonoise codes
[NASA-CASE-NPO-10214] c10 N71-26577
Linear shift register with feedback logic for generating pseudonoise linear recurring binary sequences
[NASA-CASE-NPO-11406] c08 N73-12175
Multicarrier communications system for transmitting modulated signals from single transmitter
[NASA-CASE-NPO-11548] c07 N73-26118
Pseudo-noise test set for communication system evaluation --- test signals
[NASA-CASE-MFS-22671-1] c35 N75-21582

PULLEYS
Apparatus for measuring load on cable under static or dynamic conditions comprising pulleys pivoting structure against restraint of tension strap
[NASA-CASE-MMS-04545] c15 N71-22878
Tensile strength testing device having pulley guides for exerting multiple forces on test specimen
[NASA-CASE-MNP-05634] c15 N71-24834

PULMONARY CIRCULATION
Pulmonary resuscitation method and apparatus with adjustable pressure regulator
[NASA-CASE-MMS-01115] c05 N70-39922

PULMONARY FUNCTIONS
Piston device for producing known constant positive pressure within lungs by using thoracic muscles
[NASA-CASE-MMS-01615] c05 N70-41329

PULSE AMPLITUDE
Monitoring system for signal amplitude ranges over predetermined time interval
[NASA-CASE-MMS-04061-1] c09 N69-39885
Analog to digital converter for converting pulses to frequencies
[NASA-CASE-XLA-00670] c08 N71-12501
Electrical testing apparatus for detecting amplitude and width of transient pulse
[NASA-CASE-XNP-06519] c09 N71-12519
Analog to digital converter circuit for pulse height analysis
[NASA-CASE-XNP-00477] c08 N73-28045
Electro-mechanical sine/cosine generator
[NASA-CASE-LAR-11389-1] c33 N77-26387
Speech analyzer
[NASA-CASE-GSC-11898-1] c32 N77-30309

PULSE AMPLITUDE MODULATION
Voltage controlled oscillators and pulse amplitude modulation for signal ratio system
[NASA-CASE-XNP-04367] c09 N71-23545

PULSE CODE MODULATION
Adaptive compression signal processor for PCM communication systems
[NASA-CASE-XLA-03076] c07 N71-11266
Bipolar phase detector and corrector for split phase PCM data signals
[NASA-CASE-XGS-01590] c07 N71-12392
System for recording and reproducing PCM data from data stored on magnetic tape
[NASA-CASE-XGS-01021] c08 N71-21042
Frequency shift keying apparatus for use with pulse code modulation data transmission system
[NASA-CASE-XGS-01537] c07 N71-23405
Data reduction and transmission system for TV PCM data
[NASA-CASE-NPO-11243] c07 N72-20154
Pulse code modulated data from frequency multiplex communications by digital phase shift or carrier
[NASA-CASE-NPO-11338] c08 N72-25208
Bit synchronization of PCM communications signal, without separate synchronization channel by digital correlation
[NASA-CASE-NPO-11302-1] c07 N73-13149
Method and apparatus for a single channel digital communications system --- synchronization of received PCM signal by digital correlation with reference signal
[NASA-CASE-NPO-11302-2] c32 N74-10132
Multifunction audio digitizer --- producing direct delta and pulse code modulation
[NASA-CASE-MSC-13855-1] c35 N74-17885
Pulse code modulated signal synchronizer
[NASA-CASE-MSC-12462-1] c32 N74-20809
Pulse code modulated signal synchronizer
[NASA-CASE-MSC-12494-1] c32 N74-20810
Digital transmitter for data bus communications system
[NASA-CASE-MSC-14558-1] c32 N75-21486
Compact-bi-phase pulse coded modulation decoder
[NASA-CASE-KSC-10834-1] c33 N76-14371
Low distortion receiver for bi-level baseband PCM waveforms
[NASA-CASE-MSC-14557-1] c32 N76-16249
Differential pulse code modulation
[NASA-CASE-MSC-12506-1] c32 N77-12239

PULSE COMMUNICATION
Phase shift data transmission system with pseudo-noise synchronization code modulated with digital data into single channel for spacecraft communication
[NASA-CASE-XNP-00911] c08 N70-41961
Differential pulse code modulation
[NASA-CASE-MSC-12506-1] c32 N77-12239

PULSE DURATION
Frequency to analog converters with unipolar field effect transistor for determining potential charge by pulse duration of input signal
[NASA-CASE-XNP-07040] c08 N71-12500
Electrical testing apparatus for detecting amplitude and width of transient pulse
[NASA-CASE-XNP-06519] c09 N71-12519
Design and development of variable pulse width multiplier
[NASA-CASE-XLA-02850] c09 N71-20447
Device for voltage conversion using controlled pulse widths and arrangements to generate ac output voltage
[NASA-CASE-MFS-10068] c10 N71-25139
One shot multivibrator circuit for producing long duration output pulses
[NASA-CASE-ARC-10137-1] c09 N71-28468
Pulse stretcher for narrow pulses
[NASA-CASE-MSC-14130-1] c33 N74-32711

PULSE DURATION MODULATION
Pulse duration modulation multiplier system
[NASA-CASE-XER-09213] c07 N71-12390
Variable duration pulse integrator design for integrating pulse duration modulated pulses with elimination of ripple content
[NASA-CASE-XLA-01219] c10 N71-23084
Electric motor control system with pulse width modulation for providing automatic null seeking servo
[NASA-CASE-XNP-05195] c10 N71-24861
Pulse duration control device for driving slow response time loads in selected sequence including switching and delay circuits and

magnetic storage
[NASA-CASE-XGS-04224] c10 N71-26418
Monostable multivibrator for producing output pulse widths with positive feedback NOR gates
[NASA-CASE-MSC-13492-1] c10 N71-28860
Load current sensor for series pulse width modulated power supply
[NASA-CASE-GSC-10656-1] c09 N72-25249
PULSE FREQUENCY MODULATION
Electric current measuring apparatus design including saturable core transformer and energy storage device to avoid magnetizing current errors from transformer output winding
[NASA-CASE-XGS-02439] c14 N71-19431
Digitally controlled frequency synthesizer for pulse frequency modulation telemetry systems
[NASA-CASE-XGS-02317] c09 N71-23525
Nonuninterruptable digital counter circuit design with display device for pulse frequency modulation
[NASA-CASE-XNP-09759] c08 N71-24891
Threshold extension device for improving operating performance of frequency modulation demodulators by eliminating click-type noise impulses
[NASA-CASE-MSC-12165-1] c07 N71-33696
PULSE GENERATORS
High voltage pulse generator for testing flash and ignition limits of nonmetallic materials in controlled atmospheres
[NASA-CASE-MSC-12178-1] c09 N71-13518
Interrogator and current driver circuit for combination with transistor flip-flop circuit
[NASA-CASE-XGS-03058] c10 N71-19547
Electric circuit for producing high current pulse having fast rise and fall time
[NASA-CASE-XMS-04919] c09 N71-23270
Pulse generator for synchronizing or resetting electronic signals without requiring separate external source
[NASA-CASE-XGS-03632] c09 N71-23311
Development and characteristics of resettable monostable pulse generator with charge rundown-timing circuit
[NASA-CASE-GSC-11139] c09 N71-27016
Pulse generating circuit for operation at very high duty cycles and repetition rates
[NASA-CASE-XNP-00745] c10 N71-28960
Pulse coupling circuit with switch between generator and winding
[NASA-CASE-LEW-10433-1] c09 N72-22197
Method and apparatus for nondestructive testing --- using high frequency arc discharges
[NASA-CASE-MFS-21233-1] c38 N74-15395
Random pulse generator
[NASA-CASE-MSC-14131-1] c33 N75-19515
PULSE RATE
Circuit for measuring wide range of pulse rates by utilizing high capacity counter
[NASA-CASE-XNP-06234] c10 N71-27137
Peak holding circuit for extremely narrow pulses
[NASA-CASE-MSC-14129-1] c33 N75-18479
PULSED LASERS
Repetitively pulsed wavelength selective carbon dioxide laser
[NASA-CASE-EEC-10178] c16 N71-24832
Dually mode locked Nd:YAG laser
[NASA-CASE-GSC-11746-1] c36 N75-19654
Two wavelength double pulse tunable dye laser
[NASA-CASE-LAR-12012-1] c36 N77-10517
Isotope separation using metallic vapor lasers
[NASA-CASE-NPO-13550-1] c36 N77-26477
PULSED RADIATION
Development and characteristics of cyclically operable, optical shutter for use as focal plane shutter for transmitting single radiation pulses
[NASA-CASE-NPO-10758] c14 N73-14427
PULSES
High resolution radar transmitting system for transmitting optical pulses to targets
[NASA-CASE-NPO-11426] c07 N73-26119
PUMP SEALS
Flexible barrier membrane comprising porous substrate and incorporating liquid gallium or indium metal used as sealant barriers for spacecraft walls and pumping liquid propellants
[NASA-CASE-XNP-08881] c17 N71-28747
Spiral groove seal --- for hydraulic rotating shaft
[NASA-CASE-LEW-10326-3] c37 N74-10474
PUMPS
Piezoelectric pump for supplying fluid at high frequencies to gyroscope fluid suspension system
[NASA-CASE-XNP-05429] c26 N71-21824
Vapor-liquid separator design with vapor driven pump for separated liquid pumping for application in propellant transfer
[NASA-CASE-XNP-04042] c15 N71-23023
Automatically reciprocating, high pressure pump for use in spacecraft cryogenic propellants
[NASA-CASE-XNP-04731] c15 N71-24042
Development and characteristics of variable displacement fluid pump for tranforming hydraulic pressures
[NASA-CASE-MFS-20830] c15 N71-30028
Pumping and metering dual piston system and monitor for reaction chamber constituents
[NASA-CASE-GSC-10218-1] c15 N72-21465
Magnetocaloric pump --- for cryogenic fluids
[NASA-CASE-LEW-11672-1] c37 N74-27904
PUNCHED CARDS
Describing device for flagging punched business cards
[NASA-CASE-XLA-02705] c08 N71-15908
Handling tool for printed circuit cards
[NASA-CASE-MFS-20453] c15 N71-29133
PUNCHES
Punch and die device for forming convolution series in thin gage metal hemispheres
[NASA-CASE-XNP-05297] c15 N71-23811
PURGING
Carbon dioxide purge systems to prevent condensation in spaces between cryogenic fuel tanks and hypersonic vehicle skin
[NASA-CASE-XLA-01967] c31 N70-42015
Developing high pressure gas purification and filtration system for use in test operations of space vehicles
[NASA-CASE-MFS-12806] c14 N71-17588
Fluid transferring system design for purging toxic, corrosive, or noxious fluids and fumes from materials handling equipment for cleansing and accident prevention
[NASA-CASE-XMS-01905] c12 N71-21089
Device for back purging thrust engines
[NASA-CASE-XMS-04826] c28 N71-28849
PURIFICATION
Apparatus and method capable of receiving large quantity of high pressure helium, removing impurities, and discharging at received pressure
[NASA-CASE-XNP-06888] c15 N71-24044
Purification apparatus for vaporization and fractional distillation of liquids
[NASA-CASE-XNP-08124] c15 N71-27184
Water purification process
[NASA-CASE-ARC-10643-2] c51 N75-13506
PURITY
Synthesis of high purity dianilinosilanes
[NASA-CASE-XNP-06409] c06 N71-23230
PUSH-PULL AMPLIFIERS
Frequency modulated oscillator
[NASA-CASE-MFS-23181-1] c33 N77-17351
PYROGEN
Molded composite pyrogen igniter for rocket motors
[NASA-CASE-LAR-12018-1] c20 N76-29365
PYROLYSIS
Pyrolysis system and process --- recovering energy from solid wastes containing hydrocarbons
[NASA-CASE-MSC-12669-1] c44 N76-16621
PYROLYTIC GRAPHITE
Multislot film cooled pyrolytic graphite rocket nozzle
[NASA-CASE-XNP-04389] c28 N71-20942
PYROLYTIC MATERIALS
Design, development, and characteristics of ablation structures
[NASA-CASE-XMS-01816] c33 N71-15623
PYROMETERS
Sensor device with switches for measuring surface recession of charring and noncharring ablators
[NASA-CASE-XLA-01781] c14 N69-39975
PYROTECHNICS
Energy source with tantalum capacitors in parallel and miniature silver oxide button cells for initiating pyrotechnic devices on

spacecraft and rocket vehicles
[NASA-CASE-LAR-10367-1] c03 N70-26817
Development and characteristics of squib actuated explosive disconnect for spacecraft release from launch vehicle
[NASA-CASE-MFC-11330] c33 N73-26958

Q

Q SWITCHED LASERS
Optically detonated explosive device
[NASA-CASE-MFC-11743-1] c28 N74-27425
Spatial filter for Q-switched lasers
[NASA-CASE-LEW-12164-1] c36 N77-32478
Q VALUES
Design of active RC network capable of operating at high Q values with reduced sensitivity to gain amplification and number of passive components
[NASA-CASE-ARC-10042-2] c10 N72-11256
QUADRATIC PROGRAMMING
Quadraphase demodulation
[NASA-CASE-GSC-12137-1] c32 N77-27272
QUADRATURES
Automatic quadrature control and measuring system --- using optical coupling circuitry
[NASA-CASE-MFS-21660-1] c35 N74-21017
QUALITATIVE ANALYSIS
Ultraviolet chromatographic detector for quantitative and qualitative analysis of compounds
[NASA-CASE-HQN-10756-1] c14 N72-25428
Analysis of volatile organic compounds --- trace amounts of organic volatiles in gas samples
[NASA-CASE-MSC-14428-1] c23 N77-17161
QUANTITATIVE ANALYSIS
Mixed liquid and vapor phase analyzer design with thermocouples for relative heat transfer measurement
[NASA-CASE-MFC-10691] c14 N71-26199
Quantitative liquid measurements in container by resonant frequencies
[NASA-CASE-XNP-02500] c18 N71-27397
Ultraviolet chromatographic detector for quantitative and qualitative analysis of compounds
[NASA-CASE-HQN-10756-1] c14 N72-25428
Nondispersive gas analysis using radiation detection for quantitative analysis
[NASA-CASE-ARC-10308-1] c06 N72-31141
Analysis of volatile organic compounds --- trace amounts of organic volatiles in gas samples
[NASA-CASE-MSC-14428-1] c23 N77-17161
QUANTUM THEORY
III-V photocathode with nitrogen doping for increased quantum efficiency
[NASA-CASE-MFC-12134-1] c33 N76-31409
QUARTZ
Ultraviolet filter of thorium fluoride and cryolite on quartz base
[NASA-CASE-XNP-02340] c23 N69-24332
Method for attaching a fused-quartz mirror to a conductive metal substrate
[NASA-CASE-MFS-23405-1] c26 N77-29260
QUARTZ LAMPS
High intensity heat and light unit containing quartz lamp elements protectively positioned to withstand severe environmental stress
[NASA-CASE-XLA-00141] c09 N70-33312
Light shield and cooling apparatus --- high intensity ultraviolet lamp
[NASA-CASE-LAR-10089-1] c34 N74-23066

R

RACKS (FRAMES)
Design and development of test stand system for supporting test items in vacuum chamber
[NASA-CASE-MFS-21362] c11 N73-20267
Thrust-isolating mounting --- characteristics of support for loads mounted in spacecraft
[NASA-CASE-MFS-21680-1] c18 N74-27397
RADAR ANTENNAS
Interferometric tuning acquisition and tracking radar antenna system
[NASA-CASE-XMS-09610] c07 N71-24625
Variable beamwidth antenna --- with multiple beam, variable feed system
[NASA-CASE-GSC-11862-1] c32 N76-18295
Highly efficient antenna system using a corrugated horn and scanning hyperbolic reflector
[NASA-CASE-MFC-13568-1] c32 N76-21365
RADAR ATTENUATION
FM/CW radar system
[NASA-CASE-MFS-22234-1] c32 N76-33364
RADAR DATA
Charge-coupled device data processor for an airborne imaging radar system
[NASA-CASE-MFC-13587-1] c32 N77-32342
RADAR ECHOES
Charge-coupled device data processor for an airborne imaging radar system
[NASA-CASE-MFC-13587-1] c32 N77-32342
RADAR EQUIPMENT
Spacecraft transponder and ground station radar system for mapping planetary surfaces
[NASA-CASE-MFC-11001] c07 N72-21118
FM/CW radar system
[NASA-CASE-MFS-22234-1] c32 N76-33364
RADAR IMAGERY
Method of locating persons in distress --- by using radar imagery from radar reflectors
[NASA-CASE-LAR-11390-1] c32 N77-21267
RADAR RANGE
Radar signal receiver arrangement for extending range and increasing signal to noise ratio
[NASA-CASE-XNP-00748] c07 N70-36911
RADAR RECEIVERS
Polarization diversity monopulse tracking receiver design without radio frequency switches
[NASA-CASE-XGS-03501] c09 N71-20864
RADAR RECEPTION
Radar signal receiver arrangement for extending range and increasing signal to noise ratio
[NASA-CASE-XNP-00748] c07 N70-36911
RADAR REFLECTORS
Inflatable radar reflector unit - lightweight, highly reflective to electromagnetic radiation, and adaptable for erection and deployment with minimum effort and time
[NASA-CASE-XMS-00893] c07 N70-40063
Method of locating persons in distress --- by using radar imagery from radar reflectors
[NASA-CASE-LAR-11390-1] c32 N77-21267
RADAR TRACKING
Tracking antenna system with array for synchronous satellite or ground based radar
[NASA-CASE-GSC-10553-1] c07 N71-19854
Polarization diversity monopulse tracking receiver design without radio frequency switches
[NASA-CASE-XGS-03501] c09 N71-20864
Monopulse tracking system with antenna array of three radiators for deriving azimuth and elevation indications
[NASA-CASE-XGS-01155] c10 N71-21483
Plastic sphere for radar tracking and calibration
[NASA-CASE-XLA-11154] c07 N72-21117
RADAR TRANSMITTERS
High resolution radar transmitting system for transmitting optical pulses to targets
[NASA-CASE-MFC-11426] c07 N73-26119
RADIAL FLOW
Radial heat flux transformer for use in heating and cooling processes
[NASA-CASE-MFC-10828] c33 N72-17948
Axially and radially controllable magnetic bearing
[NASA-CASE-GSC-11551-1] c37 N76-18459
RADIANCE
Method and apparatus for measuring shock layer radiation distribution about high velocity objects
[NASA-CASE-XAC-02970] c14 N69-39896
RADIANT COOLING
Direct radiation cooling of linear beam collector tubes
[NASA-CASE-XNP-09227] c15 N69-24319
High thermal emittance black surface coatings and process for applying to metal and metal alloy surfaces used in radiative cooling of spacecraft
[NASA-CASE-XLA-06199] c15 N71-24875
Method for attaching a fused-quartz mirror to a conductive metal substrate
[NASA-CASE-MFS-23405-1] c26 N77-29260
RADIANT FLUX DENSITY
High intensity radiant energy pulse source for calibrating heat transfer gages with

thermoluminescent shutter activation
[NASA-CASE-ARC-10178-1] c09 N72-17152

RADIANT HEATING
High intensity heat and light unit containing quartz lamp elements protectively positioned to withstand severe environmental stress
[NASA-CASE-XLA-00141] c09 N70-33312
High temperature source of thermal radiation
[NASA-CASE-XLE-00490] c33 N70-34545
Refractory filament series circuitry for radiant heater
[NASA-CASE-XLE-00387] c33 N70-34812
Unfired ceramic insulation for protection from radiant heating environments
[NASA-CASE-MFS-14253] c33 N71-24858

RADIATION
Development of radiant energy sensor to detect the radiant energy wavelength bands from portions of radiating body
[NASA-CASE-ARC-10174] c14 N72-25409
Development of thermopile with sensor surface to receive radiant energy and to provide measurement of energy quantity
[NASA-CASE-NPO-11493] c14 N73-12447
Two-dimensional radiant energy array computers and computing devices
[NASA-CASE-GSC-11839-2] c60 N76-18803
Analog to digital converter for two-dimensional radiant energy array computers
[NASA-CASE-GSC-11839-3] c60 N77-32731

RADIATION ABSORPTION
NDIR gas analyzer based on absorption modulation ratios for known and unknown samples
[NASA-CASE-ARC-10802-1] c35 N75-30502
Differential optoacoustic absorption detector
[NASA-CASE-NPO-13759-1] c35 N77-11363

RADIATION COUNTERS
Particle detector for indicating incidence and energy of minute space particles
[NASA-CASE-XLA-00135] c14 N70-33322
Sensing method and device for determining orientation of space vehicle or satellite by using particle traps
[NASA-CASE-XGS-00466] c21 N70-34297
Solid state device for mapping flux and power in nuclear reactor cores
[NASA-CASE-XLE-00301] c14 N70-36808
Particle beam power density detection and measurement apparatus
[NASA-CASE-XLE-00243] c14 N70-38602
Automatic baseline stabilization for ionization detector used in gas chromatograph
[NASA-CASE-XNP-03128] c10 N70-41991
Method of forming thin window drifted silicon charged particle detector
[NASA-CASE-XLE-00808] c24 N71-10560
Development of dosimeter for measuring absorbed dose of high energy ionizing radiation
[NASA-CASE-XLA-03645] c14 N71-20430
Apparatus for detecting particle emission lower than noise level of multiplier tube
[NASA-CASE-XLA-07813] c14 N72-17328
Radiation or charged particle detector and amplifier
[NASA-CASE-NPO-12128-1] c14 N73-32317
Coaxial anode wire for gas radiation counters
[NASA-CASE-GSC-11492-1] c35 N74-26949

RADIATION DAMAGE
Addition of group 3 elements to silicon semiconductor material for increased resistance to radiation damage in solar cells
[NASA-CASE-XLE-02798] c26 N71-23654
Recovering efficiency of solar cells damaged by environmental radiation through thermal annealing
[NASA-CASE-XGS-04047-2] c03 N72-11062
Photomultiplier circuit including means for rapidly reducing the sensitivity thereof --- and protection from radiation damage
[NASA-CASE-ARC-10593-1] c33 N74-27682

RADIATION DETECTORS
Radiation source and detection system for measuring amount of liquid inside tanks independently of liquid configuration
[NASA-CASE-MSC-12280] c27 N71-16348
Detection instrument for light emitted from ATP biochemical reaction
[NASA-CASE-XGS-05534] c23 N71-16355
Circuit design for determining amount of *photomultiplier tube light detection utilizing* variable current source and dark current signals of opposite polarity
[NASA-CASE-XMS-03478] c14 N71-21040
Attitude sensor with scanning mirrors for detecting orientation of space vehicle with respect to planet
[NASA-CASE-XLA-00793] c21 N71-22880
Mosaic semiconductor radiation detector and position indicator systems engineering for low energy particles
[NASA-CASE-XGS-03230] c14 N71-23401
Nondispersive gas analysis using radiation detection for quantitative analysis
[NASA-CASE-ARC-10308-1] c06 N72-31141
Radiation source tracker comprised of sectored matrix of detectors with output voltages corresponding to irradiance levels
[NASA-CASE-NPO-11686] c14 N73-25462
Radiation or charged particle detector and amplifier
[NASA-CASE-NPO-12128-1] c14 N73-32317
Mossbauer spectrometer radiation detector
[NASA-CASE-LAR-11155-1] c35 N74-15091
High field CdS detector for infrared radiation
[NASA-CASE-LAR-11027-1] c35 N74-18088
Flame detector operable in presence of proton radiation
[NASA-CASE-MFS-21577-1] c19 N74-29410
Wide angle sun sensor --- consisting of cylinder, insulation and pair of detectors
[NASA-CASE-NPO-13327-1] c35 N75-23910
Detector absorptivity measuring method and apparatus
[NASA-CASE-LAR-10907-1] c35 N76-29551

RADIATION DISTRIBUTION
Space simulator with uniform test region radiation distribution, adapted to simulate Venus solar radiations
[NASA-CASE-XNP-00459] c11 N70-38675

RADIATION DOSAGE
Development of dosimeter for measuring absorbed dose of high energy ionizing radiation
[NASA-CASE-XLA-03645] c14 N71-20430

RADIATION EFFECTS
Method for temperature compensating semiconductor gages by exposure to high energy radiation
[NASA-CASE-XLA-04555-1] c14 N71-25892

RADIATION HARDENING
Radiation hardening of MOS devices by boron --- for stabilizing gate threshold potential of field effect device
[NASA-CASE-GSC-11425-1] c76 N74-20329

RADIATION MEASUREMENT
Development of thermopile with sensor surface to receive radiant energy and to provide measurement of energy quantity
[NASA-CASE-NPO-11493] c14 N73-12447

RADIATION MEASURING INSTRUMENTS
Rocket-borne aspect sensor consisting of radiation sensor, apertured disk, commutator, and counting circuits
[NASA-CASE-XGS-08266] c14 N69-27432
Infrared scanning system for maintaining spacecraft orientation with earth reference
[NASA-CASE-XLA-00120] c21 N70-33181
Multiple wavelength radiation measuring instrument for determining hot body or gas temperature
[NASA-CASE-XLE-00011] c14 N70-41946
Development of method for improving signal to noise ratio and accuracy of Wheatstone bridge type radiation measuring instrument
[NASA-CASE-XLA-02810] c14 N71-25901
Development of thermopile with sensor surface to receive radiant energy and to provide measurement of energy quantity
[NASA-CASE-NPO-11493] c14 N73-12447
Phototransistor with base collector junction diode for integration into photo sensor arrays
[NASA-CASE-MFS-20407] c09 N73-19235
Method and apparatus for measuring electromagnetic radiation
[NASA-CASE-LEW-11159-1] c14 N73-28488
Design of gamma ray spectrometer for measurement of intense radiation using Compton scattering effect

[NASA-CASE-MFS-21441-1] c14 N73-30392
Coaxial anode wire for gas radiation counters
[NASA-CASE-GSC-11492-1] c35 N74-26949
RADIATION MEDICINE
Method of producing I-123 --- by bombardment of cesium causing spallation
[NASA-CASE-LEW-11390-2] c25 N76-27383
RADIATION PROTECTION
Development of method for protecting large and oddly shaped areas from radiant and convective heat
[NASA-CASE-XNP-01310] c33 N71-28852
Cooling and radiation protection of ruby lasers using copper sulfate solution in alcohol
[NASA-CASE-MFS-20180] c16 N72-12440
Photomultiplier circuit including means for rapidly reducing the sensitivity thereof --- and protection from radiation damage
[NASA-CASE-ARC-10593-1] c33 N74-27682
RADIATION SHIELDING
Encapsulated heater forming hollow body for cathode used in ion thruster
[NASA-CASE-LEW-10814-1] c28 N70-35422
Describing hot filament type Bayard-Alpert ionization gage with ion collector buried or removed from grid structure
[NASA-CASE-XLA-07424] c14 N71-18482
Sealed housing for protecting electronic equipment against electromagnetic interference
[NASA-CASE-MSC-12168-1] c09 N71-18600
Internal labyrinth and shield structure to improve electrical isolation of propellant feed source from ion thruster
[NASA-CASE-LEW-10210-1] c28 N71-26781
Light shield and cooling apparatus --- high intensity ultraviolet lamp
[NASA-CASE-LAR-10089-1] c34 N74-23066
RADIATION SOURCES
Sight switch using infrared source and sensor mounted beside eye
[NASA-CASE-XNP-03934] c09 N71-22985
Apparatus for obtaining isotropic irradiation on film emulsion from parallel radiation source
[NASA-CASE-MFS-20095] c24 N72-11595
Radiation source tracker comprised of sectored matrix of detectors with output voltages corresponding to irradiance levels
[NASA-CASE-NPO-11686] c14 N73-25462
High powered arc electrodes --- producing solar simulator radiation
[NASA-CASE-LEW-11162-1] c33 N74-12913
Electric arc light source having undercut recessed anode
[NASA-CASE-ARC-10266-1] c33 N75-29318
Apparatus and method for determining the position of a radiant energy source
[NASA-CASE-GSC-12147-1] c35 N77-20410
RADIATION SPECTRA
Maksutov spectrograph for low light level research
[NASA-CASE-XLA-10402] c14 N71-29041
RADIATION THERAPY
A cervix-to-rectum measuring device in a radiation applicator for use in the treatment of cervical cancer
[NASA-CASE-GSC-12081-2] c52 N77-26796
RADIATION TOLERANCE
Ultraviolet radiation resistant alkali-metal silicate coatings for temperature control of spacecraft
[NASA-CASE-XGS-04119] c18 N69-39979
Doping silicon material with gadolinium to increase radiation resistance of solar cells
[NASA-CASE-XLE-02792] c26 N71-10607
Improving radiation resistance of silicon semiconductor junctions by doping with lithium
[NASA-CASE-XGS-07801] c09 N71-12513
Radiation hardening of MOS devices by boron --- for stabilizing gate threshold potential
[NASA-CASE-GSC-11425-2] c76 N75-25730
RADIATIVE HEAT TRANSFER
Heat flux sensor assembly with proviso for heat shield to reduce radiative transfer between sensor elements
[NASA-CASE-XMS-05909-1] c14 N69-27459
Capillary radiator for carrying heat transfer liquid in planetary spacecraft structures
[NASA-CASE-XLE-03307] c33 N71-14035
Transient heat transfer gage for measuring total radiant intensity from far ultraviolet and ionized high temperature gases
[NASA-CASE-XNP-09802] c33 N71-1564
Construction and method of arranging plurality of ion engines to form cluster thereby increasing efficiency and control by decreasing heat radiated to space
[NASA-CASE-XNP-02923] c28 N71-23081
RADIATORS
Development and characteristics of natural circulation radiator for use with nuclear power plants installed in lunar space stations
[NASA-CASE-XHQ-03673] c33 N71-29046
RADIO ANTENNAS
Low loss parasitic probe antenna for prelaunch tests of spacecraft antennas
[NASA-CASE-XMS-09348] c09 N71-13521
VHF/UHF parasitic probe antenna for spacecraft communication
[NASA-CASE-XMS-09340] c07 N71-24614
Development and characteristics of extensible dipole antenna using deformable tubular metallic strip element
[NASA-CASE-HQN-00937] c07 N71-28979
Highly efficient antenna system using a corrugated horn and scanning hyperbolic reflector
[NASA-CASE-NPO-13568-1] c32 N76-21365
RADIO ASTRONOMY
Synchronous detection system for detecting weak radio astronomical signals
[NASA-CASE-XNP-09832] c30 N71-23723
RADIO COMMUNICATION
A system for synchronizing synthesizers of communication systems
[NASA-CASE-GSC-12148-1] c32 N77-22314
RADIO CONTROL
Radio frequency controlled solid state switch
[NASA-CASE-ARC-10136-1] c09 N72-22202
RADIO EQUIPMENT
A system for synchronizing synthesizers of communication systems
[NASA-CASE-GSC-12148-1] c32 N77-22314
RADIO FREQUENCIES
Helical coaxial resonator RF filter
[NASA-CASE-XGS-02816] c07 N69-24323
Automatic gain control amplifier system
[NASA-CASE-XMS-05307] c09 N69-24330
Method and apparatus for bowing of instrument panels to improve radio frequency shielded enclosure
[NASA-CASE-XNP-09422] c07 N71-19436
Development of automatic frequency discriminators and control for phase lock loop providing frequency preset capabilities
[NASA-CASE-XNP-08665] c10 N71-19467
System generating sidereal frequency signals from signals of standard solar frequency without use of mixing operations or feedback loops
[NASA-CASE-XGS-02610] c14 N71-23174
Radio frequency coaxial filter to provide dc isolation and low frequency signal rejection in audio range
[NASA-CASE-XGS-01418] c09 N71-23573
Variable frequency nuclear magnetic resonance spectrometer providing drive signals over wide frequency range and minimizing noise effects
[NASA-CASE-XNP-09830] c14 N71-26266
High efficiency transformerless amplitude modulator coupled to RF power amplifier
[NASA-CASE-GSC-10668-1] c07 N71-28430
Technique and equipment for sputtering using apertured electrode and pulsed substrate bias
[NASA-CASE-LEW-10920-1] c17 N73-24569
Radio frequency source resistance measuring instruments of varied design
[NASA-CASE-NPO-11291-1] c14 N73-30388
Multichannel logarithmic RF level detector
[NASA-CASE-LAR-11021-1] c32 N76-14321
Ion and electron detector for use in an ICR spectrometer
[NASA-CASE-NPO-13479-1] c35 N77-10492
RADIO FREQUENCY DISCHARGE
Process for preparing higher oxides of the alkali and alkaline earth metals --- using radio frequency discharge sustained in oxygen
[NASA-CASE-ARC-10992-1] c25 N77-17178
RADIO FREQUENCY INTERFERENCE
Radio frequency noise generator having microwave

slow-wave structure in gas discharge plasma
[NASA-CASE-LEW-11019] c09 N71-23598
System for interference signal nulling by polarization adjustment
[NASA-CASE-NPO-13140-1] c32 N75-24982
Systems and methods for determining radio frequency interference
[NASA-CASE-GSC-12150-1] c32 N77-12247
Apparatus and method for determining the position of a radiant energy source
[NASA-CASE-GSC-12147-1] c35 N77-20410
RADIO FREQUENCY SHIELDING
Gunn effect microwave diodes with RF shielding
[NASA-CASE-ERC-10119] c26 N72-21701
Process for making RF shielded cable connector assemblies and resulting structures
[NASA-CASE-GSC-11215-1] c09 N73-28083
RADIO RECEIVERS
Radio receiver with array of independently steerable antennas for deep space communication
[NASA-CASE-XLA-00901] c07 N71-10775
Development of optimum pre-detection diversity combining receiving system adapted for use with amplitude modulation, phase modulation, and frequency modulation systems
[NASA-CASE-XGS-00740] c07 N71-23098
Very narrow band width receiver
[NASA-CASE-GSC-12142-1] c32 N77-20299
RADIO RELAY SYSTEMS
Satellite radio communication system with remote steerable antenna
[NASA-CASE-XNP-02389] c07 N71-28900
Systems and methods for determining radio frequency interference
[NASA-CASE-GSC-12150-1] c32 N77-12247
RADIO SIGNALS
Erectable, inflatable, radio signal reflecting passive communication satellite
[NASA-CASE-XLA-00210] c30 N70-40309
Synchronous detection system for detecting weak radio astronomical signals
[NASA-CASE-XNP-09832] c30 N71-23723
RADIO SOURCES (ASTRONOMY)
Conical scan tracking system employing a large antenna --- for tracking spacecraft or radio sources
[NASA-CASE-NPO-14009-1] c32 N77-28357
RADIO STARS
System generating sidereal frequency signals from signals of standard solar frequency without use of mixing operations or feedback loops
[NASA-CASE-XGS-02610] c14 N71-23174
RADIO TELEMETRY
Digital telemetry system apparatus to reduce tape recorder wow and flutter noise during playback
[NASA-CASE-XGS-01812] c07 N71-23001
RADIO TRANSMITTERS
Vehicle locating system utilizing AM broadcasting station carriers
[NASA-CASE-NPO-13217-1] c32 N75-26194
Aircraft-mounted crash-activated transmitter device
[NASA-CASE-MFS-16609-3] c03 N76-32140
RADIO WAVES
Gunn effect microwave diodes with RF shielding
[NASA-CASE-ERC-10119] c26 N72-21701
RADIOACTIVE ISOTOPES
Thermally cascaded thermoelectric generator with radioisotopic heat source
[NASA-CASE-NPO-10753] c03 N72-26031
Protected isotope heat source --- for atmospheric reentry protection and heat transmission to spacecraft
[NASA-CASE-LEW-11227-1] c73 N75-30876
RADIOBIOLOGY
Production of I-123 for use as radiopharmaceutical for low radiation exposure
[NASA-CASE-LEW-10516-1] c24 N72-33681
RADIOGRAPHY
Nondestructive radiographic tests of resistance welds
[NASA-CASE-XNP-02588] c15 N71-18613
Method and system for in vivo measurement of bone tissue using a two level energy source
[NASA-CASE-MSC-14276-1] c52 N77-14737
RADIOLYSIS
Process for making anhydrous metal halides
[NASA-CASE-LEW-11860-1] c37 N76-18458
RADIOMETERS
Miniaturized radiometer for detecting low level thermal radiation
[NASA-CASE-XLA-04556] c14 N69-27484
Black body radiometer design with temperature sensing and cavity heat source cone winding
[NASA-CASE-XNP-09701] c14 N71-26475
Black body radiometer having isothermally surrounded cavity for ultraviolet, visible, and infrared radiation
[NASA-CASE-NPO-10810] c14 N71-27323
Thermodielectric radiometer using polymer film as capacitor
[NASA-CASE-ARC-10138-1] c14 N72-24477
Development of radiant energy sensor to detect the radiant energy wavelength bands from portions of radiating body
[NASA-CASE-ERC-10174] c14 N72-25409
Development of radiometric sensor to warn aircraft pilots of region of clear air turbulence along flight path
[NASA-CASE-ERC-10081] c14 N72-28437
Radiometric measuring system for solar activity and atmospheric attenuation and emission
[NASA-CASE-ERC-10276] c14 N73-26432
Steady state thermal radiometers
[NASA-CASE-MFS-21108-1] c34 N74-27861
RADIOSONDES
Induction powered biological radiosonde --- for measuring intracranial pressure
[NASA-CASE-ARC-11120-1] c52 N77-23743
RAIN
Precipitation detector and mechanism for stopping and restarting machinery at initiation and cessation of rain
[NASA-CASE-XLA-02619] c10 N71-26334
RAMJET ENGINES
Telescoping-spike supersonic nozzle for turbojet or ramjet engines
[NASA-CASE-XLE-00005] c28 N70-39899
RAMPS (STRUCTURES)
Automated multi-level vehicle parking system
[NASA-CASE-NPO-13058-1] c37 N77-22480
RANDOM LOADS
Fatigue testing device applying random discrete load levels to test specimen and applicable to aircraft structures
[NASA-CASE-XLA-02131] c32 N70-42003
RANDOM NOISE
Circuits for amplitude limiting of random noise inputs
[NASA-CASE-NPO-10169] c10 N71-24844
Digital servo control of random sound test excitation --- in reverberant acoustic chamber
[NASA-CASE-NPO-11623-1] c71 N74-31148
Random pulse generator
[NASA-CASE-MSC-14131-1] c33 N75-19515
Pseudo noise code and data transmission method and apparatus
[NASA-CASE-GSC-12017-1] c32 N77-30308
RANGE (EXTREMES)
Logarithmic circuit with wide dynamic range
[NASA-CASE-GSC-12145-1] c33 N77-19319
RANGE FINDERS
Closed loop radio communication ranging system to determine distance between moving airborne vehicle and fixed ground station
[NASA-CASE-XNP-01501] c21 N70-41930
Digital demodulator-correlator --- for rangefinding
[NASA-CASE-NPO-13982-1] c32 N77-24341
RANGEFINDING
Equipment for testing of ground station ranging equipment and spacecraft transponders
[NASA-CASE-XMS-05454-1] c07 N71-12391
Spacecraft ranging system
[NASA-CASE-NPO-10066] c09 N71-18598
Binary coded sequential acquisition ranging system for distance measurements
[NASA-CASE-NPO-11194] c08 N72-25209
Loop transponder for regenerating code of mu-type ranging system
[NASA-CASE-NPO-11707] c07 N73-25161
Orbital and entry tracking accessory for globes --- to provide range requirements for reentry vehicles to any landing site
[NASA-CASE-LAR-10626-1] c19 N74-21015

RARE EARTH COMPOUNDS
Including didymium hydrate in nickel hydroxide of positive electrode of storage batteries to increase ampere hour capacity
[NASA-CASE-XGS-03505] c03 N71-10608
RARE GASES
Inert gas metallic vapor laser
[NASA-CASE-NPC-13449-1] c36 N75-32441
Hydrogen-fueled engine
[NASA-CASE-NPO-13763-1] c37 N77-11398
RAREFIED GAS DYNAMICS
Preparation of dielectric coatings of variable dielectric constant by plasma polymerization
[NASA-CASE-ARC-10892-2] c27 N77-17245
RAREFIED GASES
Magnetically controlled plasma accelerator capable of ignition in low density gaseous environment
[NASA-CASE-XLA-00327] c25 N71-29184
RATES (PER TIME)
Apparatus and digital technique for coding rate data
[NASA-CASE-LAR-10128-1] c08 N73-20217
RC CIRCUITS
RC transistor circuit to indicate each pulse of pulse train and occurrence of nth pulse
[NASA-CASE-XMF-00906] c09 N70-41655
Device utilizing RC rate generators for continuous slow speed measurement
[NASA-CASE-XMF-02966] c10 N71-24863
Digital data handling circuits for pulse amplifiers
[NASA-CASE-XNP-01068] c10 N71-28739
Design of active RC network capable of operating at high Q values with reduced sensitivity to gain amplification and number of passive components
[NASA-CASE-ARC-10042-2] c10 N72-11256
Active RC filter networks and amplifiers for deep space magnetic field measurement
[NASA-CASE-XAC-05462-2] c10 N72-17171
RC networks with voltage amplifier, RC input circuit, and positive feedback
[NASA-CASE-ARC-10020] c10 N72-17172
Multiloop RC active filter network with low parameter sensitivity and low amplifier gain
[NASA-CASE-ARC-10192] c09 N72-21245
Temperature control system comprised of wheatstone bridge with RC circuit
[NASA-CASE-NPO-11304] c14 N73-26430
Diode-quad bridge circuit means
[NASA-CASE-ARC-10364-3] c33 N75-19520
REACTION CONTROL
Development of voice operated controller for controlling reaction jets of spacecraft
[NASA-CASE-XLA-04063] c31 N71-33160
REACTION WHEELS
Satellite stabilization reaction wheel scanner
[NASA-CASE-XGS-02629] c14 N71-21082
Gravity gradient attitude control system with gravity gradiometer and reaction wheels for artificial satellite attitude control
[NASA-CASE-GSC-10555-1] c21 N71-27324
REACTIVITY
Absorbing gas reactivity control system for minimizing power distribution and perturbation in nuclear reactors
[NASA-CASE-XLE-04599] c22 N72-20597
REACTOR CORES
Simulated fuel assembly-type flow measurement apparatus for coolant flow in reactor core
[NASA-CASE-XLE-00724] c14 N70-34669
Solid state device for mapping flux and power in nuclear reactor cores
[NASA-CASE-XLE-00304] c14 N70-36808
Reactor heated in-core diodes for energy conversion
[NASA-CASE-NPO-10542] c09 N72-27228
REACTOR DESIGN
Nonequilibrium radiation nuclear reactor
[NASA-CASE-HQN-10841-1] c73 N75-22108
REACTOR MATERIALS
Zirconium modified nickel-copper alloy
[NASA-CASE-LEW-12245-1] c26 N77-20201
REACTOR TECHNOLOGY
Nuclear reactor control rod assembly with improved driving mechanism
[NASA-CASE-XLE-00298] c22 N70-34501
READOUT
Flow angle sensor and remote readout system for use with cryogenic fluids
[NASA-CASE-XLE-04503] c14 N71-24864
System for checking status of several double-throw switches by readout indications
[NASA-CASE-XLA-08799] c10 N71-27272
REAL TIME OPERATION
Respiratory analysis system to determine gas flow rate and frequency of respiration and expiration cycles in real time
[NASA-CASE-MSC-13436-1] c05 N73-32015
Real time moving scene holographic camera system
[NASA-CASE-MFS-21087-1] c35 N74-17153
Real time liquid crystal image converter
[NASA-CASE-LAR-11206-1] c74 N74-30118
Real time, large volume, moving scene holographic camera system
[NASA-CASE-MFS-22537-1] c35 N75-27328
Carbon monoxide monitor --- using real time operation
[NASA-CASE-MFS-22060-1] c35 N75-29380
Real time analysis of voiced sounds
[NASA-CASE-NPO-13465-1] c32 N76-31372
Contour detector and data acquisition system for the left ventricular outline
[NASA-CASE-ARC-10985-1] c52 N77-17701
Real time reflectometer --- measurement of specular reflectance
[NASA-CASE-MFS-23118-1] c35 N77-31465
RECEIVERS
Semiconductor in resonant cavity for improving signal to noise ratio of communication receiver
[NASA-CASE-MSC-12259-1] c07 N70-12616
Improved phase lock loop for receiver in multichannel telemetry system with suppressed carrier
[NASA-CASE-NPO-11593-1] c07 N73-28012
Automatic carrier acquisition system for phase locked loop receiver
[NASA-CASE-NPO-11628-1] c07 N73-30113
Coherent receiver employing nonlinear coherence detection for carrier tracking
[NASA-CASE-NPO-11921-1] c32 N74-30523
Low distortion receiver for bi-level baseband PCM waveforms
[NASA-CASE-MSC-14557-1] c32 N76-16249
Receiving and tracking phase modulated signals
[NASA-CASE-MSC-16170-1] c32 N77-12248
Wideband heterodyne receiver for laser communication system
[NASA-CASE-GSC-12053-1] c32 N77-28346
RECONSTRUCTION
Method and means for recording and reconstructing holograms without use of reference beam
[NASA-CASE-ERC-10020] c16 N71-26154
RECORDING HEADS
Magnetic tape head function switching system
[NASA-CASE-GSC-11956-1] c35 N75-25134
Electromagnetic transducer recording head having a laminated core section and tapered gap
[NASA-CASE-NPO-10711-1] c35 N77-21392
RECORDING INSTRUMENTS
Weighing and recording device for obtaining precise automatic record of small changes in force
[NASA-CASE-XLA-02605] c14 N71-10773
Blood pressure measuring system for separately recording dc and ac pressure signals of Korotkoff sounds
[NASA-CASE-XMS-06061] c05 N71-23317
Helical recorder for multiple channel recording
[NASA-CASE-GSC-10614-1] c09 N72-11224
Thermomagnetic recording and magneto-optic playback system having constant intensity laser beam control
[NASA-CASE-NPO-11317-2] c36 N74-13205
Holography utilizing surface plasmon resonances
[NASA-CASE-MFS-22040-1] c35 N74-26946
Measuring probe position recorder
[NASA-CASE-LAR-10806-1] c35 N74-32877
Apparatus and method for determining the position of a radiant energy source
[NASA-CASE-GSC-12147-1] c35 N77-20410
RECOVERABILITY
Ejectable underwater sound source recovery assembly
[NASA-CASE-LAR-10595-1] c35 N74-16135

RECOVERABLE LAUNCH VEHICLES
Techniques for recovery of multistage rocket vehicles by providing lifting surfaces on individual sections
[NASA-CASE-XMF-00389] c31 N70-34176
RECOVERABLE SPACECRAFT
Describing assembly for opening stabilizing and decelerating flaps of flight capsules used in space research
[NASA-CASE-XMF-03169] c31 N71-15675
RECOVERY PARACHUTES
Parachute system for lowering manned spacecraft from post-reentry to ocean landing
[NASA-CASE-XLA-00195] c02 N70-38009
Development and operating principles of gas generator for deploying recovery parachutes from space capsules during atmospheric entry
[NASA-CASE-LAR-10549-1] c31 N73-13898
RECTANGULAR PANELS
Rectangular solar cell stacked panels to generate electrical power aboard spacecraft
[NASA-CASE-NPO-11771] c03 N73-20040
RECTIFIERS
Lithium drifted silicon radiation detector with gold rectifying contacts
[NASA-CASE-XLE-10529] c14 N69-23191
Power control switching circuit using low voltage semiconductor controlled rectifiers for high voltage isolation
[NASA-CASE-XNP-02713] c10 N69-39888
Precision full wave rectifier circuit for rectifying incoming electrical signals having positive or negative polarity with only positive output signals
[NASA-CASE-ARC-10101-1] c09 N71-33109
Voltage amplitude-responsive trigger circuit with silicon controlled rectifier
[NASA-CASE-GSC-10221-1] c09 N72-23171
Dc to ac to dc converter with transistor driven synchronous rectifiers
[NASA-CASE-GSC-11126-1] c09 N72-25253
REDUCED GRAVITY
Reduced gravity liquid configuration simulator to study propellant behavior in rocket fuel tanks
[NASA-CASE-XLE-02624] c12 N69-39988
Apparatus for measuring human body mass in zero or reduced gravity environment
[NASA-CASE-XMS-03371] c05 N70-42000
Cable suspension and inclined walkway system for simulating reduced or zero gravity environments
[NASA-CASE-XLA-01787] c11 N71-16028
Development of restraint system for securing personnel to ergometer while exercising under weightless conditions
[NASA-CASE-MFS-21046-1] c14 N73-27377
REDUCTION (CHEMISTRY)
Producing metal powders of controlled particle size by reducing oxide using reactive metal vapor in vacuum
[NASA-CASE-XLE-06461] c17 N72-22530
Process for making anhydrous metal halides
[NASA-CASE-LEW-11860-1] c37 N76-18458
REDUNDANT COMPONENTS
Redundant memory for enhanced reliability of digital data processing system
[NASA-CASE-GSC-10564] c10 N71-29135
REELS
Tetherline system for orbiting satellites
[NASA-CASE-MFS-23564-1] c13 N77-11079
Method and apparatus for measuring web material wound on a reel
[NASA-CASE-GSC-11902-1] c38 N77-17495
REENTRY COMMUNICATION
Electrostatic modulator for communicating through plasma sheath formed around spacecraft during reentry
[NASA-CASE-XLA-01400] c07 N70-41331
Method and apparatus for communicating through ionized layer of gases surrounding spacecraft during reentry into planetary atmospheres
[NASA-CASE-XLA-01127] c07 N70-41372
Reentry communication by injection of water droplets into plasma layer surrounding space vehicle
[NASA-CASE-XLA-01552] c07 N71-11284
REENTRY SHIELDING
Transpiration cooled heat ablation system for interplanetary spacecraft reentry shielding
[NASA-CASE-XMS-02677] c31 N70-42075
Method and apparatus for fabrication of heat insulating and ablative reentry structure
[NASA-CASE-XMS-02009] c33 N71-20834
Ablative heat shield for protection from aerodynamic heating of reentry spacecraft
[NASA-CASE-MSC-12143-1] c33 N72-17947
Protected isotope heat source --- for atmospheric reentry protection and heat transmission to spacecraft
[NASA-CASE-LEW-11227-1] c73 N75-30876
REENTRY TRAJECTORIES
Aerodynamic configuration of reentry vehicle heat shield to provide longitudinal and directional stability at hypersonic velocities
[NASA-CASE-XMS-04142] c31 N70-41631
REENTRY VEHICLES
Leading edge design for hypersonic reentry vehicles
[NASA-CASE-XLA-00165] c31 N70-33242
Delta winged, manned reentry vehicle capable of horizontal glide landing at low speeds
[NASA-CASE-XLA-00241] c31 N70-37986
Telespectrograph for analyzing upper atmosphere by tracking bodies reentering atmosphere at high velocities
[NASA-CASE-XLA-03273] c14 N71-18699
Ablation sensor for measuring surface ablation rate of material on vehicles entering earths atmosphere on entry into planetary atmospheres
[NASA-CASE-XLA-01791] c14 N71-22991
Design of ring wing vehicle of high drag-to-weight ratio to withstand reentry stress into low density atmosphere
[NASA-CASE-XLA-04901] c31 N71-24315
Development of auxiliary lifting system to provide ferry capability for entry vehicles
[NASA-CASE-LAR-10574-1] c11 N73-13257
Development and operating principles of gas generator for deploying recovery parachutes from space capsules during atmospheric entry
[NASA-CASE-LAR-10549-1] c31 N73-13898
Three-component ceramic coating for silica insulation
[NASA-CASE-MSC-14270-2] c27 N76-23426
REFERENCE SYSTEMS
Automatic frequency control device for providing frequency reference for voltage controlled oscillator
[NASA-CASE-KSC-10393] c09 N72-21247
Magnetic heading reference
[NASA-CASE-LAR-11387-2] c04 N77-19056
REFINING
Helium refining by superfluidity
[NASA-CASE-XNP-00733] c06 N70-34946
REFLECTANCE
Optical characteristics measuring apparatus
[NASA-CASE-XNP-08840] c23 N71-16365
Device for determining acceleration of gravity by interferometric measurement of travel of falling body
[NASA-CASE-XMF-05844] c14 N71-17587
Highly stable optical mirror assembly optimizing image quality of light diffraction patterns
[NASA-CASE-ERC-10001] c23 N71-24868
Transmitting and reflecting diffuser
[NASA-CASE-LAR-10385-3] c23 N73-32538
REFLECTED WAVES
Device and method for determining X ray reflection efficiency, scattering properties, and surface finish of optical surfaces
[NASA-CASE-MFS-20243] c23 N73-13662
Clear air turbulence detector
[NASA-CASE-MFS-21244-1] c36 N75-15028
Reflected-wave maser --- low noise amplifier
[NASA-CASE-NPO-13490-1] c36 N76-31512
REFLECTING TELESCOPES
Three-mirror telescope
[NASA-CASE-MFS-23675-1] c74 N77-28937
REFLECTION
Vacuum preparation of zinc titanate pigment resistant to loss of reflective properties
[NASA-CASE-MFS-13532] c18 N72-17532
Solar cell surface treatment
[NASA-CASE-LEW-11330-1] c44 N76-14612
Method and apparatus for compensating reflection losses in a path length modulated absorption-absorption trace gas detector --- for determining density of gas

[NASA-CASE-ARC-10631-1] c74 N76-20958
REFLECTOMETERS
Ellipsoidal mirror reflector for measuring reflectance
[NASA-CASE-XGS-05291] c23 N71-16341
Real time reflectometer --- measurement of specular reflectance
[NASA-CASE-MFS-23118-1] c35 N77-31465
REFLECTORS
Method of compactly packaging centrifugally expandable lightweight flexible reflector satellite
[NASA-CASE-XLA-00138] c31 N70-37981
Antenna design with self erecting mesh reflector
[NASA-CASE-XGS-09190] c31 N71-16102
Cylindrical reflector for resolving wide angle light beam from telescope into narrow beam for spectroscopic analysis
[NASA-CASE-XGS-08269] c23 N71-26206
Conical reflector antenna with feed approximating line source
[NASA-CASE-NPO-10303] c07 N72-22127
Target acquisition antenna feed with reflector system
[NASA-CASE-GSC-10064-1] c10 N72-22235
Multipurpose microwave antenna, employing dish reflector with plural coaxial horn feeds
[NASA-CASE-NPO-11264] c07 N72-25174
Characteristics of microwave antenna with conical reflectors to generate plane wave front
[NASA-CASE-NPC-11661] c07 N73-14130
Schlieren system employing antiparallel reflector in the forward direction
[NASA-CASE-ARC-10971-1] c09 N76-26224
REFRACTOMETERS
Particle size spectrometer and refractometer
[NASA-CASE-NPC-13614-1] c35 N75-19628
REFRACTORY MATERIALS
Test apparatus for determining mechanical properties of refractory materials at high temperatures in vacuum or inert atmospheres
[NASA-CASE-XLE-00335] c14 N70-35368
Method for producing refractory molybdenum disilicides
[NASA-CASE-XMS-00370] c17 N71-20941
Prestressed rocket nozzle with ceramic inner rings and refractory metal outer rings
[NASA-CASE-XNP-02888] c18 N71-21068
Semiconductor device manufacture using refractory dielectrics as diffusant masks and interconnection insulating materials
[NASA-CASE-XER-08476-1] c26 N72-17820
Electric furnace for vacuum and zero gravity melting of high melting point materials during earth orbit
[NASA-CASE-MFS-20710] c11 N72-23215
Catalytic trimerization of aromatic nitriles and triaryl-s-triazine ring cross-linked high temperature resistant polymers and copolymers made thereby
[NASA-CASE-LEW-12053-1] c27 N74-34579
REFRACTORY METALS
Refractory filament series circuitry for radiant heater
[NASA-CASE-XLE-00387] c33 N70-34812
Production of refractory bodies with controlled porosity by pressing and heating mixtures of refractory and inert metal powders
[NASA-CASE-LEW-10393-1] c17 N71-15468
Multilayer porous refractory metal ionizer design with thick, porous, large-grain substrates and thin, porous micron-grain substrates
[NASA-CASE-XNP-04338] c17 N71-23046
Brazing alloy adapted for brazing corrosion resistant steel to refractory metals, also for brazing refractory metals to other refractory metals
[NASA-CASE-XNP-03063] c17 N71-23365
Development and characteristics of thermal radiation shielding of refractory metal foil used for induction furnace
[NASA-CASE-XLE-03432] c33 N71-24145
Production of high strength refractory compounds and microconstituents into refractory metal matrix
[NASA-CASE-XLE-03940] c18 N71-26153
Silicide coating process and composition for protection of refractory metals from oxidation
[NASA-CASE-XLE-10910] c18 N71-29040
Development of procedure for improved distribution of refractory compounds and micro-constituents in refractory metal matrix
[NASA-CASE-XLE-03940-2] c17 N72-28536
Fused silicide coatings containing discrete particles for protecting niobium alloys --- used in space shuttle thermal protection systems and turbine engine components
[NASA-CASE-LEW-11179-1] c27 N76-16229
Method of making an apertured casting --- using duplicate mold
[NASA-CASE-LEW-11169-1] c37 N76-23570
REFRIGERATING
Heat exchanger and decontamination system for multistage refrigeration unit
[NASA-CASE-NPO-10634] c23 N72-25619
REFRIGERATING MACHINERY
Gas balancing, cryogenic refrigeration apparatus with Joule-Thomson valve assembly
[NASA-CASE-NPO-10309] c15 N69-23190
Method and apparatus for producing very low temperature refrigeration based on gas pressure balance
[NASA-CASE-XNP-08877] c15 N71-23025
Dual solid cryogens for spacecraft refrigeration insuring low temperature cooling for extended periods
[NASA-CASE-GSC-10188-1] c23 N71-24725
Stirling cycle engine and refrigeration systems
[NASA-CASE-NPO-13613-1] c37 N76-29590
REFRIGERATORS
Intermittent type silica gel adsorption refrigerator for providing temperature control for spacecraft components
[NASA-CASE-XNP-00920] c15 N71-15906
Helium refrigerator
[NASA-CASE-NPO-13435-1] c31 N76-14284
REGENERATION (ENGINEERING)
Switching circuit with regeneratively connected transistors eliminating power consumption when not in use
[NASA-CASE-XNP-02654] c10 N70-42032
Direct current electromotive system for regenerative braking of electric motor
[NASA-CASE-XNP-01096] c10 N71-16030
REGENERATIVE COOLING
Metal ribbon wrapped outer wall for regeneratively cooled combustion chamber
[NASA-CASE-XLE-00164] c15 N70-36411
Fabrication method for lightweight regeneratively cooled combustion chamber of channel construction
[NASA-CASE-XLE-00150] c28 N70-41818
Regenerative cooling system for small rocket engine having restart capability and using noncryogenic hypergolic propellants
[NASA-CASE-XLE-00685] c28 N70-41992
Regenerative cooling system for rocket combustion chamber using coolant tubes in convergent-divergent nozzle
[NASA-CASE-XLE-04857] c28 N71-23968
Thermocouple apparatus for measuring wall temperatures in regeneratively cooled rocket engines having thin walled cooling passages
[NASA-CASE-XLE-05230-2] c14 N73-13417
REGENERATIVE FUEL CELLS
Electrolytically regenerative hydrogen-oxygen fuel cells
[NASA-CASE-XLE-04526] c03 N71-11052
REGENERATORS
Loop transponder for regenerating code of mu-type ranging system
[NASA-CASE-NPO-11707] c07 N73-25161
REGISTERS (COMPUTERS)
Data processor with plural register stages for selectively interconnecting with each other to effect multiplicity of operations
[NASA-CASE-GSC-10186] c08 N71-33110
Priority interrupt system --- comprised of four registers
[NASA-CASE-NPO-13067-1] c60 N76-18800
REINFORCED PLASTICS
Process for developing filament reinforced plastic tubes used in research and development programs
[NASA-CASE-LAR-10203-1] c15 N72-16330
Reinforced structural plastics
[NASA-CASE-LEW-10199-1] c27 N74-23125

Composite lamination method --- of resin impregnated fiber tape
[NASA-CASE-LAR-12019-1] c24 N77-22179

REINFORCEMENT (STRUCTURES)
Reinforcing beam system for highly flexible diaphragms in valves or pressure switches
[NASA-CASE-XNP-01962] c32 N70-41370
Fabrication of light weight panel structure using pairs of elongate hollow ribs of semicircular configuration
[NASA-CASE-LAR-11052-1] c32 N73-13929

REINFORCING FIBERS
High strength reinforced metallic composites for applications over wide temperature range
[NASA-CASE-XLE-02428] c17 N70-33288
Method for producing fiber reinforced metallic composites with high strength and elasticity over wide temperature range
[NASA-CASE-XLE-00231] c17 N70-38198
Description of method for producing metallic composites reinforced with ceramic and refractory hard metals that are fibered in place
[NASA-CASE-XLE-03925] c18 N71-22894
Production and application of sprayable fiber reinforced ablation material
[NASA-CASE-XLA-04251] c18 N71-26100
Method of preparing graphite reinforced aluminum composite
[NASA-CASE-MFS-21077-1] c24 N75-28135
Composite sandwich lattice structure
[NASA-CASE-LAR-11898-1] c24 N77-15103

RELAXATION OSCILLATORS
Voltage controlled, variable frequency relaxation oscillator with MOSFET variable current feed
[NASA-CASE-GSC-10022-1] c10 N71-25882

RELAY SATELLITES
Earth satellite relay station for frequency multiplexed voice transmission
[NASA-CASE-GSC-10118-1] c07 N71-24621

RELEASING
Bolt-latch mechanism for releasing despin weights from space vehicle
[NASA-CASE-XLA-00679] c15 N70-38601
Quick-release coupling for fueling rocket vehicles with cryogenic propellants
[NASA-CASE-XMS-01985] c15 N71-10782
Design and development of release mechanism for spacecraft components, releasable despin weights, and extensible gravity booms
[NASA-CASE-XGS-08718] c15 N71-24600
Pneumatic mechanism for releasing hook and loop fasteners between large rigid structures
[NASA-CASE-XMS-10660-1] c15 N71-25975
Delayed simultaneous appendage release mechanism for use on spacecraft equipped with despin mechanisms and releasable components
[NASA-CASE-GSC-10814-1] c03 N73-20039

RELIABILITY ANALYSIS
Development of computer program for estimating reliability of self-repair and fault-tolerant systems with respect to selected system and mission parameters
[NASA-CASE-NPO-13086-1] c15 N73-12495

RELIABILITY ENGINEERING
Improving load capacity and fatigue life of rolling element systems in rockets and missiles
[NASA-CASE-XLE-02999] c15 N71-16052
Gage for quality control of sealing surfaces of threaded boss
[NASA-CASE-XNP-04566] c14 N71-17658
Reliability of automatic refilling valving device for cryogenic liquid systems
[NASA-CASE-NPO-11177] c15 N72-17453
Reliability of electrical connectors after heat sterilization
[NASA-CASE-NPO-10694] c09 N72-20200
Reliable electrical element heater using plural wire system and backup power sources
[NASA-CASE-MFS-21462-1] c33 N74-14935
Hollow rolling element bearings
[NASA-CASE-LEW-11087-3] c37 N74-21064

RELIEF VALVES
Relief valve to permit slow and fast bleeding rates at difference pressure levels
[NASA-CASE-XMS-05894-1] c15 N69-21924
Describing apparatus for separating gas from cryogenic liquid under zero gravity and for venting gas from fuel tank
[NASA-CASE-XLE-00586] c15 N71-15968
Redundant hydraulic control system for actuators with three main valve combination
[NASA-CASE-MFS-20944] c15 N73-13466

REMOTE CONTROL
Oscillatory electromagnetic mirror drive system for horizon scanners
[NASA-CASE-XLA-03724] c14 N69-27461
Stage separation using remote control release of joint with explosive insert
[NASA-CASE-XLA-02854] c15 N69-27490
Power controlled bimetallic electromechanical actuator for accurate, timely, and reliable response to remote control signal
[NASA-CASE-XNP-09776] c09 N69-39929
Two component valve assembly for cryogenic liquid transfer regulation
[NASA-CASE-XLE-00397] c15 N70-36492
Remotely actuated quick disconnect mechanism for umbilical cables
[NASA-CASE-XLA-00711] c03 N71-12258
Remotely actuated quick disconnect for tubular umbilical conduits used to transfer fluids from ground to rocket vehicle
[NASA-CASE-XLA-01396] c03 N71-12259
Remote control device operated by movement of finger tips for manual control of spacecraft attitude
[NASA-CASE-XAC-02405] c09 N71-16089
Satellite radio communication system with remote steerable antenna
[NASA-CASE-XNP-02389] c07 N71-28900
Laser beam projector for continuous, precise alignment between target, laser generator, and astronomical telescope during tracking
[NASA-CASE-NPO-11087] c23 N71-29125
Solid state remote circuit selector switching circuit
[NASA-CASE-LEW-10387] c09 N72-22201
Design and development of multichannel laser remote control system using modulated helium-neon laser as transmitter and light collector as receiving antenna
[NASA-CASE-LAR-10311-1] c16 N73-16536
Cooperative multiaxis sensor for teleoperation of article manipulating apparatus
[NASA-CASE-NPO-13386-1] c54 N75-27758
Remotely operable articulated manipulator
[NASA-CASE-MFS-22707-1] c37 N76-15457
Remote manipulator system
[NASA-CASE-MFS-22022-1] c37 N76-15460

REMOTE HANDLING
Manipulator for remote handling in zero gravity environment
[NASA-CASE-MFS-14405] c15 N72-28495
Apparatus for remote handling of materials --- mixing or analyzing dangerous chemicals
[NASA-CASE-LAR-10634-1] c37 N74-18123
An improved controller arm for a remotely related slave arm
[NASA-CASE-ARC-11052-1] c54 N77-30751
Anthropomorphic master/slave manipulator system
[NASA-CASE-ARC-10756-1] c54 N77-32721

REMOTE SENSORS
Passive optical wind and turbulence remote detection system
[NASA-CASE-XMF-14032] c20 N71-16340
Ionization control system design for monitoring separately located ion gage pressures on vacuum chambers
[NASA-CASE-XLE-00787] c14 N71-21090
Flow angle sensor and remote readout system for use with cryogenic fluids
[NASA-CASE-XLE-04503] c14 N71-24864
Time synchronization system for synchronizing clocks at remote locations with master clock using moon reflected coded signals
[NASA-CASE-NPO-10143] c10 N71-26326
Development of radiometric sensor to warn aircraft pilots of region of clear air turbulence along flight path
[NASA-CASE-ERC-10081] c14 N72-28437
Development of electronic detection system for remotely determining number and movement of enemy personnel
[NASA-CASE-ARC-10097-2] c07 N73-25160
Microwave power transmission system wherein level of transmitted power is controlled by reflections from receiver

[NASA-CASE-MFS-21470-1] c44 N74-19870
Voltage monitoring system
[NASA-CASE-KSC-10736-1] c33 N75-19521
Remote sensing of vegetation and soil using microwave ellipsometry
[NASA-CASE-GSC-11976-1] c43 N76-23671
Wind sensor
[NASA-CASE-NPO-13462-1] c35 N76-24524
Focused laser Doppler velocimeter
[NASA-CASE-MFS-23178-1] c35 N77-10493
Wind measurement system
[NASA-CASE-MFS-23362-1] c47 N77-10753
Apparatus and method for determining the position of a radiant energy source
[NASA-CASE-GSC-12147-1] c35 N77-20410
Penetrometer --- for determining load bearing characteristics of inclined surfaces
[NASA-CASE-NPO-11103-1] c35 N77-27367
Remote water monitoring system
[NASA-CASE-LAR-11973-1] c43 N77-28563

REMOTELY PILOTED VEHICLES
Rotating launch device for a remotely piloted aircraft
[NASA-CASE-ARC-10979-1] c09 N77-19076

REMOVAL
Catalyst bed element removing tool
[NASA-CASE-XFR-00811] c15 N70-36901
Stator rotor tools
[NASA-CASE-MSC-16000-1] c07 N77-13062

RENDEZVOUS SPACECRAFT
Tetherline system for orbiting satellites
[NASA-CASE-MFS-23564-1] c13 N77-11079

REPEATERS
Time division relay synchronizer with master sync pulse for activating binary counter to produce signal identifying time slot for station
[NASA-CASE-GSC-10373-1] c07 N71-19773

REPLACING
Indexing mechanism for cathode array substitution in electron beam tube
[NASA-CASE-NPO-10625] c09 N71-26182

RESCUE OPERATIONS
Backpack carrier with retractable legs suitable for lunar exploration and convertible to rescue vehicle
[NASA-CASE-LAR-10056] c05 N71-12351
Development and characteristics of rescue litter with inflatable flotation device for water rescue application
[NASA-CASE-MMS-04170] c05 N71-22748
High visibility air sea rescue panel
[NASA-CASE-MSC-12564-1] c54 N76-15792
Method of locating persons in distress --- by using radar imagery from radar reflectors
[NASA-CASE-LAR-11390-1] c32 N77-21267

RESEARCH AND DEVELOPMENT
Process for developing filament reinforced plastic tubes used in research and development programs
[NASA-CASE-LAR-10203-1] c15 N72-16330

RESEARCH VEHICLES
Lunar landing flight research vehicle
[NASA-CASE-XFR-00929] c31 N70-34966
Velocity limiting safety system for motor driven research vehicle
[NASA-CASE-XLA-07473] c15 N71-24895

RESIDUAL STRESS
Miniature solid state, direction sensitive, stress transducer design with bonded semiconductive piezoresistive element for sensing residual stresses
[NASA-CASE-XNP-02983] c14 N71-21091
Manufacturing process for making perspiration resistant-stress resistant biopotential electrode
[NASA-CASE-MSC-90153-2] c05 N72-25120

RESILIENCE
Automated ball rebound resilience test equipment for determining viscoelastic properties of polymers
[NASA-CASE-XLA-08254] c14 N71-26161

RESIN BONDING
Procedure for bonding polytetrafluoroethylene thermal protective sleeves to magnesium alloy conical shell components with different thermal coefficients
[NASA-CASE-XLA-01262] c15 N71-21404
Covered silicon solar cells and method of manufacture --- with polymeric films
[NASA-CASE-LEW-11065-2] c44 N76-14600
Composite lamination method --- of resin impregnated fiber tape
[NASA-CASE-LAR-12019-1] c24 N77-22179

RESINS
Modification of polyurethanes with alkyl halide resins, inorganic salts, and encapsulated volatile and reactive halogen for fuel fire control
[NASA-CASE-ARC-10098-1] c06 N71-24739
Development of process for bonding resinous body in cavities of honeycomb structures
[NASA-CASE-MSC-12357] c15 N73-12489
Resin for protecting p-n semiconductor junction surface
[NASA-CASE-ERC-10339-1] c18 N73-30532

RESISTANCE
Manufacturing process for making perspiration resistant-stress resistant biopotential electrode
[NASA-CASE-MSC-90153-2] c05 N72-25120
Variable resistance constant tension and lubrication device --- using oil-saturated leather wiper
[NASA-CASE-KSC-10723-1] c37 N75-13265

RESISTANCE HEATING
High resistance cross flow heat exchangers for electrothermal rocket engines
[NASA-CASE-XLE-01783] c28 N70-34175

RESISTORS
High isolation RF signal selection switches
[NASA-CASE-NPO-13081-1] c33 N74-22814
Resistive anode image converter
[NASA-CASE-HQN-10876-1] c33 N76-27473

RESOLUTION
Conversion system for increasing resolution of analog to digital converters
[NASA-CASE-XAC-00404] c08 N70-40125
Cylindrical reflector for resolving wide angle light beam from telescope into narrow beam for spectroscopic analysis
[NASA-CASE-XGS-08269] c23 N71-26206

RESOLVERS
Differential phase shift keyed signal resolver
[NASA-CASE-MSC-14066-1] c33 N74-27705

RESONANCE
Optically selective, acoustically resonant gas detecting transducer
[NASA-CASE-ARC-10639-1] c35 N77-19388

RESONANT FREQUENCIES
Vibrating element electrometer producing high conversion gain by input current control of elements resonant frequency displacement amplitude
[NASA-CASE-XAC-02807] c09 N71-23021
Quantitative liquid measurements in container by resonant frequencies
[NASA-CASE-XNP-02500] c18 N71-27397
Development of electrical circuit for suppressing oscillations across inductor operating in resonant mode
[NASA-CASE-ERC-10403-1] c10 N73-26228
A CW ultrasonic bolt tensioning monitor
[NASA-CASE-LAR-12016-1] c32 N77-15236

RESONATORS
Selective bandpass resonators using bandstop resonator pairs for microwave frequency operation
[NASA-CASE-GSC-10990-1] c09 N73-26195

RESPIRATION
Respiration analyzing method and apparatus for determining subjects oxygen consumption in aerospace environments
[NASA-CASE-XFR-08403] c05 N71-11202

RESPIRATORS
Transducer for monitoring oxygen flow in respirator
[NASA-CASE-ERC-10012] c14 N72-17329

RESPIRATORY RATE
Flowmeters for sensing low fluid flow rate and pressure for application to respiration rate studies
[NASA-CASE-ERC-10022] c12 N71-26546
Respiratory analysis system to determine gas flow rate and frequency of respiration and expiration cycles in real time
[NASA-CASE-MSC-13436-1] c05 N73-32015
Metabolic analyzer --- for measuring metabolic rate and breathing dynamics of human beings

[NASA-CASE-MFS-21415-1] c52 N74-20728
RESPIROMETERS
Metabolic analyzer --- for measuring metabolic rate and breathing dynamics of human beings
[NASA-CASE-MFS-21415-1] c52 N74-20728
RESPONSES
System for monitoring condition responsive devices by using frequency division multiplex technique
[NASA-CASE-KSC-10521] c07 N73-20176
RESTARTABLE ROCKET ENGINES
Collapsible auxiliary tank for restarting liquid propellant rocket motors under zero gravity
[NASA-CASE-XNP-01390] c28 N70-41275
Regenerative cooling system for small rocket engine having restart capability and using noncryogenic hypergolic propellants
[NASA-CASE-XLE-00685] c28 N70-41992
RESUSCITATION
Pulmonary resuscitation method and apparatus with adjustable pressure regulator
[NASA-CASE-XMS-01115] c05 N70-39922
RETARDING
Ablative resins used for retarding regression in ablative material
[NASA-CASE-XLE-05913] c33 N71-14032
RETICLES
Optical tracker with pair of FM reticles having patterns 90 deg out of phase
[NASA-CASE-XGS-05715] c23 N71-16100
Method for producing reticles for use in outer space
[NASA-CASE-GSC-11188-2] c21 N73-19630
Production method of star tracking reticles for transmitting in visible and near ultraviolet regions
[NASA-CASE-GSC-11188-1] c14 N73-32320
Formation of star tracking reticles
[NASA-CASE-GSC-11188-3] c74 N74-20008
Star scanner --- with a reticle with a pair of slits having differing separation
[NASA-CASE-GSC-11569-1] c89 N74-30886
RETRACTABLE EQUIPMENT
Retractable runway lights
[NASA-CASE-XLA-00119] c11 N70-33329
Support for flexible conductor cable between drawers or racks holding electronic equipment and cabinet assembly housing drawers or racks
[NASA-CASE-XMF-07587] c15 N71-18701
RETROFIRING
Visual target luminaires for retrofire attitude control
[NASA-CASE-XMS-12158-1] c31 N69-27499
Device for use in descending spacecraft as altitude sensor for actuating deceleration retrorockets
[NASA-CASE-XMS-03792] c14 N70-41812
RETROREFLECTION
Servo system for retroreflector of Michelson interferometer
[NASA-CASE-NPO-10300] c14 N71-17662
RETROROCKET ENGINES
Steerable solid propellant rocket motor adapted to effect payload orientation as multistage rocket stage or reduce velocity as retrorocket
[NASA-CASE-XNP-00234] c28 N70-38645
REUSABLE SPACECRAFT
Recoverable, reusable single stage booster capable of injecting large payloads into circular earth orbit
[NASA-CASE-XMF-01973] c31 N70-41588
Spacecraft configurations and aerodynamic characteristics of space shuttle systems with two reusable stages
[NASA-CASE-MSC-12433] c31 N73-14854
REUSE
Silica reusable surface insulation
[NASA-CASE-ARC-10721-1] c27 N76-22376
REVERSED FLOW
Multistage multiple reentry axial flow reaction turbine with reverse flow reentry ducting
[NASA-CASE-XLE-00170] c15 N70-36412
Reversible current directing circuitry for reversible motor control
[NASA-CASE-XLA-09371] c10 N71-18724
Positive locking check valve for stopping reversed flow
[NASA-CASE-XMS-09310] c15 N71-22706
Reverse pitch fan with divided splitter
[NASA-CASE-LEW-12760-1] c07 N77-17059
REYNOLDS NUMBER
Wind tunnel test section for simulating high Reynolds number over transonic speed range
[NASA-CASE-MFS-20509] c11 N72-17183
REYNOLDS STRESS
System for measuring Reynolds in a turbulently flowing fluid --- signal processing
[NASA-CASE-ARC-10755-2] c34 N76-27517
RHENIUM
Thermocouples of tantalum and rhenium alloys for more stable vacuum-high temperature performance
[NASA-CASE-LEW-12050-1] c35 N77-32454
RIBBONS
Metal ribbon wrapped outer wall for regeneratively cooled combustion chamber
[NASA-CASE-XLE-00164] c15 N70-36411
Device for bending metal ribbon or wire
[NASA-CASE-XLA-05966] c15 N72-12408
Controlled diffusion reaction process for masking substrate of twisted multifilament superconductive ribbon
[NASA-CASE-LEW-11726-1] c26 N73-26752
Apparatus for assembling space structure
[NASA-CASE-MFS-23579-1] c12 N77-31213
RIBOFLAVIN
Bioassay of flavin coenzymes
[NASA-CASE-GSC-10565-1] c06 N72-25149
RIBS (SUPPORTS)
Aeroflexible wing structure with air scoop for inflating stiffeners with ram air
[NASA-CASE-XLA-06095] c01 N69-39981
Fabrication of light weight panel structure using pairs of elongate hollow ribs of semicircular configuration
[NASA-CASE-LAR-11052-1] c32 N73-13929
RICE
Rice preparation process consisting of cooking, two freezing-thawing cycles, and then freeze drying
[NASA-CASE-MSC-13540-1] c05 N72-33096
RIGID ROTORS
Hingeless helicopter rotor with improved stability
[NASA-CASE-ARC-10807-1] c05 N77-17029
RIGID STRUCTURES
Pneumatic mechanism for releasing hook and loop fasteners between large rigid structures
[NASA-CASE-XMS-10660-1] c15 N71-25975
Storage stable, thermally activated foaming compositions for erecting and rigidizing mechanisms of thin sheet solar collectors
[NASA-CASE-LAR-10373-1] c18 N71-26155
Adjustable rigid mount for trihedral mirror formed of alloy with small coefficient of thermal expansion supporting screws and spring-biased plates
[NASA-CASE-XNP-08907] c23 N71-29123
Folding structure fabricated of rigid panels
[NASA-CASE-XHQ-02146] c18 N75-27040
Composite sandwich lattice structure
[NASA-CASE-LAR-11898-2] c24 N77-26242
RIGID WINGS
Deployment system for flexible wing with rigid superstructure
[NASA-CASE-XLA-01220] c02 N70-41863
RING CURRENTS
Design of transistorized ring counter circuit with special steering and triggering circuits
[NASA-CASE-XGS-03095] c09 N69-27463
RING STRUCTURES
Reversible ring counter using cascaded single silicon controlled rectifier stages
[NASA-CASE-XGS-01473] c09 N71-10673
Nonreuseable energy absorbing device comprising ring member with plurality of recesses, cutting members, and guide member mounted in each recess
[NASA-CASE-XMF-10040] c15 N71-22877
Phase-locked servo system --- for synchronizing the rotation of slip ring assembly
[NASA-CASE-MFS-22073-1] c33 N75-13139
Laser system with an antiresonant optical ring
[NASA-CASE-HQN-10844-1] c36 N75-19653
Liquid metal slip ring
[NASA-CASE-LEW-12277-1] c33 N76-28472
Collapsible corrugated horn antenna
[NASA-CASE-LAR-11745-1] c32 N77-24339

RING WINGS
Design of ring wing vehicle of high drag-to-weight ratio to withstand reentry stress into low density atmosphere
[NASA-CASE-XLA-04901] c31 N71-24315
RIPPLES
Circuit for monitoring power supply by ripple current indication
[NASA-CASE-KSC-10162] c09 N72-11225
RIVETS
Electrical connection for printed circuits on common board, using bellows principle in rivet
[NASA-CASE-XNP-05082] c15 N70-41960
*ROCKET ENGINE CASES
Method for shaping regeneratively cooled rocket motor casing having minimum thickness at each channel cross section
[NASA-CASE-XLE-00409] c28 N71-15658
Regeneratively cooled rocket motor casing with tapered channels to insure minimum thicknesses at each channel cross section for necessary strength requirements
[NASA-CASE-XLE-05689] c28 N71-15659
Payload/spent rocket engine case separation system
[NASA-CASE-XLA-05369] c31 N71-15687
Liner for hybrid solid propellants to bind propellant to rocket motor case
[NASA-CASE-XNP-09744] c27 N71-16392
Permanently magnetized ion engine casing construction for use in spacecraft propulsion systems
[NASA-CASE-XNP-06942] c28 N71-23293
Casting propellant in rocket engine
[NASA-CASE-LAR-11995-1] c28 N77-10213
Solid propellant rocket motor and method of making same
[NASA-CASE-XLA-1349] c20 N77-17143
ROCKET ENGINE DESIGN
High thrust annular liquid propellant rocket engine and exhaust nozzle design
[NASA-CASE-XLE-00078] c28 N70-33284
Spherical solid propellant rocket engine design
[NASA-CASE-XLA-00105] c28 N70-33331
Spherical solid propellant rocket engine having abrupt burnout
[NASA-CASE-XHQ-01897] c28 N70-35381
Metal ion rocket engine design
[NASA-CASE-XLE-00342] c28 N70-37980
Improvement in rocket engine performance with swirling flow exhaust nozzle development
[NASA-CASE-XNP-03692] c28 N71-24321
Characteristics of ion rocket engine with combination keeper electrode and electron baffle
[NASA-CASE-NPO-11880] c28 N73-24783
Supersonic-combustion rocket
[NASA-CASE-LEW-11058-1] c20 N74-13502
Rocket chamber and method of making
[NASA-CASE-LEW-11118-2] c20 N76-14191
System for imposing directional stability on a rocket-propelled vehicle
[NASA-CASE-MFS-21311-1] c20 N76-21275
ROCKET ENGINES
Channel-type shell construction for rocket engines and related configurations
[NASA-CASE-XLE-00144] c28 N70-34860
Encapsulated heater forming hollow body for cathode used in ion thruster
[NASA-CASE-LEW-10814-1] c28 N70-35422
Apparatus for cooling and injecting hypergolic propellants into combustion chamber of small rocket engine
[NASA-CASE-XLE-00303] c15 N70-36535
Elastic universal joint for rocket motor mounting
[NASA-CASE-XNP-00416] c15 N70-36947
Water electrolysis rocket engine with self-regulating stoichiometric fuel mixing regulator
[NASA-CASE-XGS-08729] c28 N71-14044
Method for igniting solid propellant rocket motors by injecting hypergolic fluids
[NASA-CASE-XLE-01988] c27 N71-15634
Laminar flow of liquid coolants in rocket engines
[NASA-CASE-NPO-10122] c12 N71-17631
Improvement in rocket engine performance with swirling flow exhaust nozzle development
[NASA-CASE-XNP-03692] c28 N71-24321
System for removing and repairing spacecraft control thrusters by use of portable air locks
[NASA-CASE-MFS-20325] c28 N71-27095
Device for back purging thrust engines
[NASA-CASE-XMS-04826] c28 N71-28849
Development of method for cooling high temperature wall members with cooling medium having high heat absorption capability
[NASA-CASE-HQN-00938] c33 N71-29053
Automatic shunting of ion thrustor magnetic field when thrustor is not operating
[NASA-CASE-LEW-10835-1] c28 N72-22771
Vacuum chamber with scale model of rocket engine base area of space vehicle
[NASA-CASE-MFS-20620] c11 N72-27262
Thermocouple apparatus for measuring wall temperatures in regeneratively cooled rocket engines having thin walled cooling passages
[NASA-CASE-XLE-05230-2] c14 N73-13417
Improving preformance of magnetoplasmadynamic arc rocket engine
[NASA-CASE-LEW-11180-1] c25 N73-25760
Method of electroforming a rocket chamber
[NASA-CASE-LEW-11118-1] c20 N74-32919
Device for installing rocket engines
[NASA-CASE-MFS-19220-1] c20 N76-22296
Molded composite pyrogen igniter for rocket motors
[NASA-CASE-LAR-12018-1] c20 N76-29365
Ion beam thruster shield
[NASA-CASE-LEW-12082-1] c20 N77-10148
Anode for ion thruster
[NASA-CASE-LEW-12048-1] c20 N77-20162
Low thrust monopropellant engine
[NASA-CASE-GSC-12194-1] c20 N77-28219
ROCKET EXHAUST
Thrust vector control by secondary injection of fluid into rocket nozzle flow field to separate exhaust flow
[NASA-CASE-XLE-00208] c28 N70-34294
Development of vortex fluid amplifier for throttling rocket exhaust
[NASA-CASE-LEW-10374-1] c28 N73-13773
ROCKET FIRING
Design and characteristics of linkage to alleviate rocket vehicle divergence during launch
[NASA-CASE-XLA-00256] c31 N71-15663
ROCKET FLIGHT
Development of technique for control of free flight rocket vehicles
[NASA-CASE-XLA-00937] c31 N71-17691
ROCKET LAUNCHING
Design and characteristics of linkage to alleviate rocket vehicle divergence during launch
[NASA-CASE-XLA-00256] c31 N71-15663
Controlled release device for use in launching rockets or missiles
[NASA-CASE-XMS-03338] c15 N71-24043
ROCKET NOZZLES
Gimbaled partially submerged nozzle for solid propellant rocket engines for providing directional control
[NASA-CASE-XNP-01544] c28 N70-34162
Large area-ratio nozzles for rocket motor thrust chambers
[NASA-CASE-XLE-00145] c28 N70-36806
Flexible rocket motor nozzle closure device to aid ignition and protect rocket chamber from foreign objects
[NASA-CASE-XLA-02651] c28 N70-41967
Automatically deploying nozzle exit cone extension
[NASA-CASE-XLE-01640] c31 N71-15637
Method for testing rocket nozzles at high tensile stress levels
[NASA-CASE-NPO-10311] c31 N71-15643
Development of collapsible nozzle extension for rocket engines
[NASA-CASE-MFS-11497] c28 N71-16224
Camera protecting device for use in photographing rocket engine nozzles or other engine components
[NASA-CASE-NPO-10174] c14 N71-18465
Multislot film cooled pyrolytic graphite rocket nozzle
[NASA-CASE-XNP-04389] c28 N71-20942
Prestressed rocket nozzle with ceramic inner rings and refractory metal outer rings
[NASA-CASE-XNP-02888] c18 N71-21068
Improvement in rocket engine performance with swirling flow exhaust nozzle development
[NASA-CASE-XNP-03692] c28 N71-24321

Development of method for cooling high temperature wall members with cooling medium having high heat absorption capability
[NASA-CASE-HQN-00938] c33 N71-29053
Inflatable rocket engine nozzle skirt with transpiration cooling
[NASA-CASE-MFS-20619] c28 N72-11708
Thin walled nozzle with insulative ncnablative coating for solid propellant rocket engines
[NASA-CASE-NPO-11458] c28 N72-23810

ROCKET OXIDIZERS
Preparing oxidizer coated metal fuel particles
[NASA-CASE-NPO-11975-1] c28 N74-33209

ROCKET PROPELLANTS
Solenoid two-step valve for bipropellant flow rate control to rocket engine
[NASA-CASE-XMS-04890-1] c15 N70-22192
Rocket engine injector orifice to accommodate changes in density, velocity, and pressure, thereby maintaining constant mass flow rate of propellant into rocket combustion chamber
[NASA-CASE-XLE-03157] c28 N71-24736
Bipropellant injector with pair of concave deflector plates
[NASA-CASE-XNP-09461] c28 N72-23809
Nitramine propellants
[NASA-CASE-NPO-14103-1] c28 N77-25346

ROCKET TEST FACILITIES
High-vacuum condenser tank for testing ion rocket engines
[NASA-CASE-XLE-00168] c11 N70-33278
Micro-pound extended range thrust stand for small rocket engines
[NASA-CASE-GSC-10710-1] c28 N71-27094

ROCKET THRUST
Solid propellant rocket vehicle thrust control method and apparatus
[NASA-CASE-XNP-00217] c28 N70-38181
High voltage insulators for direct current in acceleration system of electrostatic thrustor
[NASA-CASE-XLE-01902] c28 N71-10574
Characteristics of solid propellant rocket engine with controlled rate of thrust buildup operating in vacuum environment
[NASA-CASE-NPO-11559] c28 N73-24784
Thrust measurement
[NASA-CASE-XMS-05731] c35 N75-29382

ROCKET VEHICLES
Umbilical separator for rockets
[NASA-CASE-XNP-00425] c11 N70-38202
Hydraulic support equipment for full scale dynamic testing of large rocket vehicle under free flight conditions
[NASA-CASE-XMF-01772] c11 N70-41677
Design and characteristics of linkage to alleviate rocket vehicle divergence during launch
[NASA-CASE-XLA-00256] c31 N71-15663
Development of technique for control of free flight rocket vehicles
[NASA-CASE-XLA-00937] c31 N71-17691

ROCKET-BORNE INSTRUMENTS
Rocket-borne aspect sensor consisting of radiation sensor, apertured disk, commutator, and counting circuits
[NASA-CASE-XGS-08266] c14 N69-27432
General purpose rocket furnace
[NASA-CASE-MFS-23460-1] c09 N77-12070

ROCKETS
Device for detecting hydrogen fires onboard high altitude rockets
[NASA-CASE-MFS-13130] c10 N72-17173

ROCKS
Rotary impact-type rock drill for recovering rock cuttings
[NASA-CASE-XNP-07478] c14 N69-21923
Rock sampling --- apparatus for controlling particle size
[NASA-CASE-XNP-10007-1] c46 N74-23068
Rock sampling --- method for controlling particle size distribution
[NASA-CASE-XNP-09755] c46 N74-23069

RODS
Nuclear thermionic converter --- tungsten-thorium oxide rods
[NASA-CASE-NPO-13121-1] c73 N77-18891

ROLL
Measuring roll alignment of test body with respect to reference body
[NASA-CASE-GSC-10514-1] c14 N72-20379

ROLLER BEARINGS
Solid lubricant applied to porous roller bearings prior to use in ultrahigh vacuum
[NASA-CASE-XLE-09527] c15 N71-17688
Semilinear bearing comprising two rows of roller bearings separated by spherical bearings and permitting rotational and translational movement
[NASA-CASE-XLA-02809] c15 N71-22982
Low mass rolling element bearing assembly
[NASA-CASE-LEW-11087-1] c15 N73-30458
Method of making rolling element bearings
[NASA-CASE-LEW-11087-2] c37 N74-15128
Bearing material --- composite material with low friction surface for rolling or sliding contact
[NASA-CASE-LEW-11930-1] c24 N76-22309

ROLLERS
Improving load capacity and fatigue life of rolling element systems in rockets and missiles
[NASA-CASE-XLE-02999] c15 N71-16052
Load regulating latch
[NASA-CASE-MSC-19535-1] c37 N77-32499

ROLLING CONTACT LOADS
Development of rolling element bearing for operation in ultrahigh vacuum environment
[NASA-CASE-XLE-09527-2] c15 N71-26189

ROLLING MOMENTS
Star sensor system for roll attitude control of spacecraft
[NASA-CASE-XNP-01307] c21 N70-41856

ROOM TEMPERATURE
Process permitting application of synthetic resin coating to irregular-shaped objects at ambient temperature
[NASA-CASE-XNP-06508] c18 N69-39895

ROTARY STABILITY
Drive mechanism for operating reactance attitude control system for aerospace bodies
[NASA-CASE-XNP-01598] c21 N71-15583
Combination guide and rotary bearing for freely moving shaft
[NASA-CASE-XLA-00013] c15 N71-29136
Lubricated journal bearing
[NASA-CASE-LEW-11076-3] c37 N75-30562
Rotary leveling base platform
[NASA-CASE-ARC-10981-1] c35 N77-10498
Cyclical bi-directional rotary actuator
[NASA-CASE-GSC-11883-1] c37 N77-19458

ROTARY WING AIRCRAFT
Aircraft control system for rotary wing aircraft
[NASA-CASE-ERC-10439] c02 N73-19004

ROTARY WINGS
Variable geometry rotor system for direct control over wake vortex
[NASA-CASE-LAR-10557] c02 N72-11018
Hingeless helicopter rotor with improved stability
[NASA-CASE-ARC-10807-1] c05 N77-17029
Automatically lockable axially extensible strut --- for helicopters
[NASA-CASE-LAR-11900-1] c05 N77-18134
Acoustically swept rotor
[NASA-CASE-ARC-11106-1] c05 N77-31130

ROTATING BODIES
Optical scanner mounted on rotating support structure with method of compensating for image or satellite rotation
[NASA-CASE-IGS-02401] c14 N69-27485
Laser device for removing material from rotating object for dynamic balancing
[NASA-CASE-MFS-11279] c16 N71-20400
Phase-locked servo system --- for synchronizing the rotation of slip ring assembly
[NASA-CASE-MFS-22073-1] c33 N75-13139
Rotating joint signal coupler
[NASA-CASE-LAR-11264-1] c33 N75-27261
An improved rotatable mass for a flywheel
[NASA-CASE-MFS-23051-1] c37 N76-13500
Annular momentum control device used for stabilization of space vehicles and the like
[NASA-CASE-LAR-11051-1] c15 N76-14158
Axially and radially controllable magnetic bearing
[NASA-CASE-GSC-11551-1] c37 N76-18459
Multiple in-line docking capability for rotating space stations
[NASA-CASE-MFS-20855-1] c15 N77-10112

ROTATING DISKS
Foil seal between parts moving relative to each other
[NASA-CASE-XLE-05130] c15 N69-21362

Rocket-borne aspect sensor consisting of radiation sensor, apertured disk, commutator, and counting circuits
[NASA-CASE-XGS-06266] c14 N69-27432

ROTATING ELECTRICAL MACHINES
Modulating and controlling intensity of light beam from high temperature source by servocontrolled rotating cylinders
[NASA-CASE-XMS-04300] c09 N71-19479
Design and development of electric motor with stationary field and armature windings which operates on direct current
[NASA-CASE-XGS-05290] c09 N71-25999
Double-induction variable speed system for constant-frequency electrical power generation
[NASA-CASE-ERC-10065] c09 N71-27364

ROTATING ENVIRONMENTS
Radial module manned space station with artificial gravity environment
[NASA-CASE-XMS-01906] c31 N70-41373
Artificial gravity system for simulating self-locomotion capability of astronauts in rotating environments
[NASA-CASE-XLA-03127] c11 N71-10776

ROTATING GENERATORS
Rotating raster generator
[NASA-CASE-FRC-10071-1] c32 N74-20813

ROTATING MIRRORS
Optical retrodirective modulator with focus spoiling reflector driven by modulation signal
[NASA-CASE-GSC-10062] c14 N71-15605
Attitude sensor with scanning mirrors for detecting orientation of space vehicle with respect to planet
[NASA-CASE-XLA-00793] c21 N71-22880
Optical device containing rotatable prism and reflecting mirror for generating precise angles
[NASA-CASE-XGS-04173] c19 N71-26674
Method and apparatus for optically monitoring the angular position of a rotating mirror
[NASA-CASE-GSC-11353-1] c74 N74-21304

ROTATING SHAFTS
Fluid seal formed by flexible disk on rotating shaft to retain lubricating oils around shaft
[NASA-CASE-XLE-05130-2] c15 N71-19570
Anemometer with braking mechanism to prevent rotation of wind driven elements
[NASA-CASE-XMF-05224] c14 N71-23726
Electromagnetic braking arrangement for controlling rotor rotation in electric motor
[NASA-CASE-XNP-06936] c15 N71-24695
Liquid-vapor interface seal design for turbine rotating shafts including helical and molecular pumps and liquid cooling of mercury vapor
[NASA-CASE-XNP-02862-1] c15 N71-26294
Combination guide and rotary bearing for freely moving shaft
[NASA-CASE-XLA-00013] c15 N71-29136
Development of Hall effect transducer for converting mechanical shaft rotations into proportional electrical signals
[NASA-CASE-LAR-10620-1] c09 N72-25255
Development of optical system for detecting defective components in rotating machinery with emphasis on bearing assemblies
[NASA-CASE-KSC-10752-1] c15 N73-27407
Spiral groove seal --- for rotating shaft
[NASA-CASE-XLE-10326-4] c37 N74-15125
Digital servo controller --- for rotating antenna shaft
[NASA-CASE-KSC-10769-1] c33 N74-29556
Solid medium thermal engine
[NASA-CASE-ARC-10461-1] c44 N74-33379
Ergometer calibrator --- for any ergometer utilizing rotating shaft
[NASA-CASE-MFS-21045-1] c35 N75-15932
Fluid seal for rotating shafts
[NASA-CASE-LEW-11676-1] c37 N76-22541
Actuator mechanism
[NASA-CASE-GSC-11883-2] c37 N77-15400
Cyclical bi-directional rotary actuator
[NASA-CASE-GSC-11883-1] c37 N77-19458
A rotary electric device
[NASA-CASE-GSC-12138-1] c33 N77-20344
Tachometer
[NASA-CASE-MFS-23175-1] c35 N77-30436

ROTATION
Semilinear bearing comprising two rows of roller bearings separated by spherical bearings and permitting rotational and translational movement
[NASA-CASE-XLA-02809] c15 N71-22982
Mechanical actuator wherein linear motion changes to rotational motion
[NASA-CASE-XGS-04548] c15 N71-24045
Positioning mechanism for converting translatory motion into rotary motion
[NASA-CASE-NPO-10679] c15 N72-21462

ROTOR AERODYNAMICS
Acoustically swept rotor
[NASA-CASE-ARC-11106-1] c05 N77-31130

ROTOR BLADES
Nondestructive method for instrumenting helicopter rotor blades
[NASA-CASE-LAR-11201-1] c35 N77-22452

ROTOR BLADES (TURBOMACHINERY)
Locking device for retaining turbine rotor blades on turbine wheel
[NASA-CASE-XNP-00816] c28 N71-28928
Blade vibration damping pins for turbomachinery
[NASA-CASE-XLE-00155] c28 N71-29154
Apparatus for welding blades to rotors
[NASA-CASE-LEW-10533-2] c37 N74-11300
Supersonic fan blading --- noise reduction in turbofan engines
[NASA-CASE-LEW-11402-1] c07 N74-28226
Apparatus and method for reducing thermal stress in a turbine rotor
[NASA-CASE-LEW-12232-1] c07 N77-18160
Blade retainer assembly
[NASA-CASE-LEW-12608-1] c07 N77-27116
Platform for a swing root turbomachinery blade
[NASA-CASE-LEW-12312-1] c07 N77-32148

ROTOR LIFT
Constant lift rotor for a heavier than air craft
[NASA-CASE-ARC-11045-1] c05 N77-28111

ROTOR SPEED
Brushless dc tachometer design with Hall effect crystals and output voltage magnitude proportional to rotor speed
[NASA-CASE-MFS-20385] c09 N71-24904

ROTORS
Multistage, multiple reentry, single rotor, axial flow turbine
[NASA-CASE-XLE-00085] c28 N70-39895
Describing angular position and velocity sensing apparatus
[NASA-CASE-XGS-05680] c14 N71-17585
Microwave waveguide switch with rotor position control
[NASA-CASE-XNP-06507] c09 N71-23548
Electromagnetic braking arrangement for controlling rotor rotation in electric motor
[NASA-CASE-XNP-06936] c15 N71-24695
Rotary vane attenuator with two stators and intermediary rotor, using resistive and orthogonally disposed cards
[NASA-CASE-NPO-11418-1] c14 N73-13420
Process for welding compressor and turbine blades to rotors and discs of jet engines
[NASA-CASE-LEW-10533-1] c15 N73-28515
Liquid metal slip ring
[NASA-CASE-LEW-12277-1] c33 N76-28472

RUBBER
Rubber composition for expulsion bladders and diaphragms for use with hydrazine
[NASA-CASE-NPO-11433] c18 N71-31140
Formulated plastic separators for soluble electrode cells --- rubber-ion trasport sheeting
[NASA-CASE-LEW-12358-1] c44 N77-18560

RUBBER COATINGS
Intumescent paint containing nitrile rubber for fire protection
[NASA-CASE-ARC-10196-1] c18 N73-13562

RUBY
Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide
[NASA-CASE-GSC-11577-1] c37 N75-15992
Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide
[NASA-CASE-GSC-11577-3] c24 N76-19234

RUBY LASERS
Cooling and radiation protection of ruby lasers using copper sulfate solution in alcohol
[NASA-CASE-MFS-20180] c16 N72-12440

RUNWAY ALIGNMENT
Magnetic method for detection of aircraft position relative to runway

[NASA-CASE-ARC-10179-1] c21 N72-22619
RUNWAY LIGHTS
Retractable runway lights
[NASA-CASE-XLA-00119] c11 N70-33329
Spectrally balanced chromatic landing approach lighting system
[NASA-CASE-ARC-10990-1] c04 N77-12031
RUPTURING
Knife structure for controlling rupture of shock tube diaphragms
[NASA-CASE-XAC-00731] c11 N71-15960

S

SAFETY
Safety flywheel
[NASA-CASE-HQN-10888-1] c37 N77-22484
SAFETY DEVICES
Helmet and torso tiedown mechanism for shortening pressure suits upon inflation
[NASA-CASE-MSC-00784] c05 N71-12335
Positive locking check valve for stopping reversed flow
[NASA-CASE-MFS-09310] c15 N71-22706
Description of protective device for providing safe operating conditions around work piece in machine or metal working tool
[NASA-CASE-XLE-01092] c15 N71-22797
Velocity limiting safety system for motor driven research vehicle
[NASA-CASE-XLA-07473] c15 N71-24895
Device for generating and controlling combustion products for testing of fire detection system
[NASA-CASE-GSC-11095-1] c14 N72-10375
Restraint torso for increased mobility and reduced physiological effects while wearing pressurized suits
[NASA-CASE-MSC-12397-1] c05 N72-25119
Totally confined explosive welding --- apparatus to reduce noise level and protect personnel during explosive bonding
[NASA-CASE-LAR-10941-1] c37 N74-21057
Deployable flexible ventral fins for use as an emergency spin recovery device in aircraft
[NASA-CASE-LAR-10753-1] c08 N74-30421
Shoulder harness and lap belt restraint system
[NASA-CASE-ARC-10519-2] c05 N75-25915
Fifth wheel
[NASA-CASE-FRC-10081-1] c37 N77-14477
An improved vehicular impact absorption system
[NASA-CASE-NPO-14014-1] c37 N77-31501
SAHA EQUATIONS
Cosmic dust analyzer
[NASA-CASE-MSC-13802-2] c35 N76-15431
SALT BATHS
Application techniques for protecting materials during salt bath brazing
[NASA-CASE-XLE-00046] c15 N70-33311
SAMARIUM
Gadolinium or samarium doped-silicon semiconductor material with resistance to radiation damage for use in solar cells
[NASA-CASE-XLE-10715] c26 N71-23292
SAMPLERS
Portable vacuum probe surface sampler for sampling large surface areas with relatively light loading densities of microorganisms
[NASA-CASE-LAR-10623-1] c14 N73-30395
SAMPLES
Automatic multiple-sample applicator and electrophoresis apparatus
[NASA-CASE-ARC-10991-1] c25 N77-12157
SAMPLING
Impact bit for cutting, collecting, and storing samples such as lunar rock cuttings
[NASA-CASE-XNP-01412] c15 N70-42034
Design and development of fluid sample collector
[NASA-CASE-XMS-06767-1] c14 N71-20435
Design and development of two types of atmosphere sampling chambers
[NASA-CASE-NPO-11373] c13 N72-25323
Digital to analog converter for sampled signal reconstruction
[NASA-CASE-MSC-12458-1] c08 N73-32081
Rock sampling --- apparatus for controlling particle size
[NASA-CASE-XNP-10007-1] c46 N74-23068
Rock sampling --- method for controlling particle size distribution
[NASA-CASE-XNP-09755] c46 N74-23069
Apparatus for microbiological sampling --- including automatic swabbing
[NASA-CASE-LAR-11069-1] c35 N75-12272
Automatic biowaste sampling
[NASA-CASE-MSC-14640-1] c54 N76-14804
Remote water monitoring system
[NASA-CASE-LAR-11973-1] c43 N77-28563
SANDWICH STRUCTURES
Sandwich panel structure for removing heat from shield between hot and cold areas
[NASA-CASE-XLA-00349] c33 N70-37979
Particle detector for measuring micrometeoroid velocity in space
[NASA-CASE-XLA-00495] c14 N70-41332
Capacitor sandwich structure containing metal sheets of known thickness for counting penetration rates of meteoroids
[NASA-CASE-XLE-01246] c14 N71-10797
Technique for making foldable, inflatable, plastic honeycomb core panels for use in building and bridge structures, light and radio wave reflectors, and spacecraft
[NASA-CASE-XLA-03492] c15 N71-22713
Punch and die device for forming convolution series in thin gage metal hemispheres
[NASA-CASE-XNP-05297] c15 N71-23811
Composite sandwich lattice structure
[NASA-CASE-LAR-11898-1] c24 N77-15103
Composite sandwich lattice structure
[NASA-CASE-LAR-11898-2] c24 N77-26242
SAPPHIRE
Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide
[NASA-CASE-GSC-11577-1] c37 N75-15992
Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide
[NASA-CASE-GSC-11577-3] c24 N76-19234
SATELLITE ANTENNAS
Monopole antenna system for maximum omnidirectional efficiency for use on satellites
[NASA-CASE-XLA-00414] c07 N70-38200
Development of antenna system for spin stabilized communication satellite for simultaneous reception and transmission of data
[NASA-CASE-XGS-02607] c31 N71-23009
SATELLITE ATTITUDE CONTROL
Photosensitive light source device for detecting unmanned spacecraft deviation from reference attitude
[NASA-CASE-XNP-00438] c21 N70-35089
Attitude control system for spacecraft based on conversion of incident solar radiation on movable control surfaces into mechanical torques
[NASA-CASE-XNP-02982] c31 N70-41855
Design and development of satellite despin device
[NASA-CASE-XNP-08523] c31 N71-20396
Utilization of momentum devices for forming attitude control and damping system for spacecraft
[NASA-CASE-XLA-02551] c21 N71-21708
Gravity gradient attitude control system with gravity gradiometer and reaction wheels for artificial satellite attitude control
[NASA-CASE-GSC-10555-1] c21 N71-27324
Method and apparatus for providing active attitude control for spacecraft by converting any attitude motion of vehicle into simple rotational motion
[NASA-CASE-HQN-10439] c21 N72-21624
Momentum wheel design for spacecraft attitude control and magnetic drum and head system for data storage
[NASA-CASE-NPO-11481] c21 N73-13644
Combination automatic-starting electrical plasma torch and gas shutoff valve --- for satellite attitude control
[NASA-CASE-XLE-10717] c37 N75-29426
Attitude control system
[NASA-CASE-MFS-22787-1] c15 N77-10113
SATELLITE CONTROL
Stabilization system for gravity-oriented satellites using single damper rod
[NASA-CASE-XAC-01591] c31 N71-17729
SATELLITE DESIGN
Inflation system for balloon type satellites
[NASA-CASE-XGS-03351] c31 N71-16081
SATELLITE INSTRUMENTS
Satellite stabilization reaction wheel scanner

[NASA-CASE-XGS-02629] c14 N71-21082
Economical satellite aided vehicle avoidance system for preventing midair collisions
[NASA-CASE-ERC-10419] c21 N72-21631
SATELLITE NETWORKS
Satellite network synchronization system with multiple access to multiplex repeater
[NASA-CASE-GSC-10390-1] c07 N72-11149
SATELLITE ORBITS
Development of method and apparatus for spinning satellite about selected axis after reaching predetermined orientation
[NASA-CASE-HQN-00936] c31 N71-29050
SATELLITE ORIENTATION
Sensing method and device for determining orientation of space vehicle or satellite by using particle traps
[NASA-CASE-XGS-00466] c21 N70-34297
Spin phase synchronization of cartwheel satellite in polar orbit
[NASA-CASE-XGS-05579] c31 N71-15676
Development of method and apparatus for spinning satellite about selected axis after reaching predetermined orientation
[NASA-CASE-HQN-00936] c31 N71-29050
Analog spatial maneuver computer with three output angles for obtaining desired spatial attitude
[NASA-CASE-GSC-10880-1] c08 N72-11172
SATELLITE PERTURBATION
Flexible turnstile antenna system for reducing nutation in spin-oriented satellites
[NASA-CASE-XMF-00442] c31 N71-10747
SATELLITE ROTATION
Optical scanner mounted on rotating support structure with method of compensating for image or satellite rotation
[NASA-CASE-XGS-02401] c14 N69-27485
Stretch Yo-Yo mechanism for reducing initial spin rate of space vehicle
[NASA-CASE-XGS-00619] c30 N70-40016
Development of method and apparatus for spinning satellite about selected axis after reaching predetermined orientation
[NASA-CASE-HQN-00936] c31 N71-29050
SATELLITE TELEVISION
Adaptive signal-generating system and logic circuits for satellite television systems
[NASA-CASE-GSC-11367] c10 N71-26374
SATELLITE TRACKING
Design and development of tracking receiver for tracking satellites and receiving radio signal transmissions under adverse noise conditions
[NASA-CASE-XGS-08679] c10 N71-21473
Simultaneous acquisition of tracking data from two stations
[NASA-CASE-NPO-13292-1] c32 N75-15854
Switchable beamwidth monopulse method and system
[NASA-CASE-GSC-11924-1] c33 N76-27472
SATELLITE TRANSMISSION
Asynchronous, multiplexing, single line transmission and recovery data system --- for satellite use
[NASA-CASE-NPO-13321-1] c32 N75-26195
SATELLITE-BORNE PHOTOGRAPHY
Rotary solenoid shutter drive assembly and rotary inertia damper and stop plate assembly --- for use with cameras mounted in satellites
[NASA-CASE-GSC-11560-1] c33 N74-20861
SATURATION
Saturable magnetic core and signal detection for indicating impending saturation
[NASA-CASE-ERC-10089] c23 N72-17747
SAWTOOTH WAVEFORMS
Linear sawtooth voltage wave generator with transistor timing circuit having capacitor and zener diode feedback loops
[NASA-CASE-XMS-01315] c09 N70-41675
SCANNERS
Electronic and mechanical scanning control system for monopulse tracking antenna
[NASA-CASE-XGS-05582] c07 N69-27460
Electronic background suppression field scanning sensor for detecting point source targets
[NASA-CASE-XGS-05211] c07 N69-39980
Electron beam scanning system for improved image definition and reduced power requirements for video signal transmission
[NASA-CASE-ERC-10552] c09 N71-12539
Satellite stabilization reaction wheel scanner
[NASA-CASE-XGS-02629] c14 N71-21082
Monopulse scanning network for scanning volumetric antenna pattern
[NASA-CASE-GSC-10299-1] c09 N71-24804
High speed scanner for measuring mass of preselected gases at high sampling rate
[NASA-CASE-LAR-10766-1] c14 N72-21432
Scan oscilloscope for mapping surface sensitivity of photomultiplier tube
[NASA-CASE-LAR-10320-1] c09 N72-23172
Ultrasonic scanner for radial and flat panels
[NASA-CASE-MFS-20335-1] c35 N74-10415
Apparatus for scanning the surface of a cylindrical body
[NASA-CASE-NPO-11861-1] c36 N74-20009
Fast scan control for deflection type mass spectrometers
[NASA-CASE-LAR-11428-1] c35 N74-34857
Magnetometer --- with an automatic scanning transducer
[NASA-CASE-LAR-11617-2] c35 N77-17430
SCANNING
Conversion system for transforming slow scan rate of Apollo TV camera on moon to fast scan of commercial TV
[NASA-CASE-XMS-07168] c07 N71-11300
Operation of vidicon tube for scanning spatial charge density pattern
[NASA-CASE-XNP-06028] c09 N71-23189
Position determination systems --- using orbital antenna scan of celestial bodies
[NASA-CASE-MSC-12593-1] c17 N76-21250
SCHLIEREN PHOTOGRAPHY
Schlieren system employing antiparallel reflector in the forward direction
[NASA-CASE-ARC-10971-1] c09 N76-26224
SCHOOLS
Silent alarm system for mutiple room facility or school
[NASA-CASE-NPO-11307-1] c10 N73-30205
SCHOTTKY DIODES
High voltage, high current Schottky barrier solar cell
[NASA-CASE-NPO-13482-1] c44 N74-30448
Improved backwall cell
[NASA-CASE-LEW-12236-1] c44 N77-17565
Method for fabricating solar cells having integral collector grids
[NASA-CASE-LEW-12819-1] c44 N77-24593
SCOOPS
Aeroflexible wing structure with air scoop for inflating stiffeners with ram air
[NASA-CASE-XLA-06095] c01 N69-39981
SCREWS
Electromechanical control actuator system using double differential screws
[NASA-CASE-ERC-10022] c15 N71-26635
Adjustable support device with jacket screw for altering distance between base and supported member
[NASA-CASE-NPO-10721] c15 N72-27484
SCRUBBERS
Developing high pressure gas purification and filtration system for use in test operations of space vehicles
[NASA-CASE-MFS-12806] c14 N71-17588
Process for removing sulfur dioxide from gas streams --- using iron as a catalyst
[NASA-CASE-MSC-16299-1] c45 N77-31668
SEA ICE
Laser technique for breaking ice in ship path
[NASA-CASE-LAR-10815-1] c16 N72-22520
SEALERS
Design and development of flexible joint for pressure suits
[NASA-CASE-XMS-09636] c05 N71-12344
Epoxy resin sealing device for electrochemical cells in high vacuum environments
[NASA-CASE-XGS-02630] c03 N71-22974
Leak resistant bonded elastomeric seal for secondary electrochemical cells
[NASA-CASE-XGS-02631] c03 N71-23006
Self lubricating fluoride-metal composite materials for outer space applications

[NASA-CASE-XLE-08511] c18 N71-23710
Polyimides of ether-linked aryl tetracarboxylic dianhydrides
[NASA-CASE-MFS-22355-1] c23 N76-15268
Flame-resistant liquid oxygen compatible neoprene rubber composition
[NASA-CASE-KSC-11020-1] c27 N77-23267
SEALING
Foil seal between parts moving relative to each other
[NASA-CASE-XLE-05130] c15 N69-21362
Sealed electric storage battery with gas manifold interconnecting each cell
[NASA-CASE-XNP-03378] c03 N71-11051
Epoxy resin sealing device for electrochemical cells in high vacuum environments
[NASA-CASE-XGS-02630] c03 N71-22974
Electrode sealing and insulation for fuel cells containing caustic liquic electrolytes using powdered plastic and metal
[NASA-CASE-XMS-01625] c15 N71-23022
Sealing evacuation port and evacuating vacuum container such as space jackets
[NASA-CASE-XNP-03290] c15 N71-23256
Segmented sealing surface in valve seat
[NASA-CASE-NPO-10606] c15 N72-25451
SEALS (STOPPERS)
Spacecraft battery seals
[NASA-CASE-XGS-03864] c15 N69-24320
Flexible inflatable seal for butterfly valves
[NASA-CASE-XLE-00101] c15 N70-33376
Shrink-fit vacuum system gas valve
[NASA-CASE-XGS-00587] c15 N70-35087
Thin walled pressure test vessel using low-melting alloy-filled joint to attach shell to heads
[NASA-CASE-XLE-04677] c15 N71-10577
Fluid seal formed by flexible disk on rotating shaft to retain lubricating oils around shaft
[NASA-CASE-XLE-05130-2] c15 N71-19570
Sealed storage container for channel carriers with mounted miniature electronic components
[NASA-CASE-MFS-20075] c09 N71-26133
Liquid-vapor interface seal design for turbine rotating shafts including helical and molecular pumps and liquid cooling of mercury vapor
[NASA-CASE-XNP-02862-1] c15 N71-26294
Spiral groove seal --- for rotating shaft
[NASA-CASE-XLE-10326-4] c37 N74-15125
Glass-to-metal seals comprising relatively high expansion metals
[NASA-CASE-LEW-10698-1] c37 N74-21063
High speed, self-acting shaft seal --- for use in turbine engines
[NASA-CASE-LEW-11274-1] c37 N75-21631
Circumferential shaft seal
[NASA-CASE-LEW-12119-1] c37 N76-20488
Method of forming shrink-fit compression seal
[NASA-CASE-LAR-11563-1] c37 N77-23482
Gas path seal --- for use with turbine engines
[NASA-CASE-LEW-12131-1] c37 N77-24498
Shaft seal assembly for high speed and high pressure applications
[NASA-CASE-LEW-11873-1] c37 N77-27404
SEAMS (JOINTS)
Sealing apparatus for joining two pieces of frangible materials
[NASA-CASE-XLA-01494] c15 N71-24164
Cord restraint system for pressure suit joints
[NASA-CASE-XMS-09635] c05 N71-24623
Method of making pressure tight seal for super alloy
[NASA-CASE-LAR-10170-1] c37 N74-11301
SEAT BELTS
Shoulder harness and lap belt restraint system
[NASA-CASE-ARC-10519-2] c05 N75-25915
SEATS
A seat cushion to provide realistic acceleration cues for aircraft simulator pilots
[NASA-CASE-LAR-12149-1] c54 N77-31787
SECTORS
Journal Bearings
[NASA-CASE-LEW-11076-2] c37 N74-32921
SEDIMENTARY ROCKS
In-situ laser retorting of oil shale
[NASA-CASE-LEW-12217-1] c36 N77-18429
SEGMENTS
Fabrication of curved reflector segments for solar mirror
[NASA-CASE-XLE-08917] c15 N71-15597
SEISMIC WAVES
Determining sway of buildings by low frequency device using pendulum
[NASA-CASE-XNP-00479] c14 N70-34794
SELECTORS
Selector mechanism for mechanical separation and discrimination of high velocity molecular particles
[NASA-CASE-XLP-01533] c11 N71-10777
Peak polarity selector for monitoring waveforms
[NASA-CASE-FRC-10010] c10 N71-24862
SELF ALIGNMENT
Electro-optical system for maintaining two-axis alignment during milling operations on large tank-sections
[NASA-CASE-XNP-00908] c14 N70-40238
SELF ERECTING DEVICES
Self-erectable space structures of flexible foam for application in planetary orbits
[NASA-CASE-XLA-00686] c31 N70-34135
Manned space station collapsible for launching and self-erectable in orbit
[NASA-CASE-XLA-00678] c31 N70-34296
Manned space station launched in packaged condition and self erecting in orbit
[NASA-CASE-XLA-00258] c31 N70-38676
Foldable conduit capable of springing back as self erecting structural member
[NASA-CASE-XLE-00620] c32 N70-41579
Antenna design with self erecting mesh reflector
[NASA-CASE-XGS-09190] c31 N71-16102
Self erecting parabolic reflector design for use in space
[NASA-CASE-XMS-03454] c09 N71-20658
SELF LUBRICATING MATERIALS
Self lubricating fluoride-metal composite materials for outer space applications
[NASA-CASE-XLE-08511] c18 N71-23710
Self lubricating gears and other mechanical parts having surface adapted to frictional contact
[NASA-CASE-MFS-14971] c15 N71-24984
SELF LUBRICATION
Bearing material
[NASA-CASE-LEW-11930-2] c24 N76-26282
SELF MANEUVERING UNITS
Hand-held maneuvering unit for propulsion and attitude control of astronauts in zero or reduced gravity environment
[NASA-CASE-XMS-05304] c05 N71-12336
Lightweight propulsion unit for movement of personnel and equipment across lunar surface
[NASA-CASE-MFS-20130] c28 N71-27585
SELF PROPAGATION
Self-generating optical frequency waveguide
[NASA-CASE-HQN-10541-1] c07 N71-26291
SELF SEALING
Modification of one man life raft
[NASA-CASE-LAR-10241-1] c54 N74-14845
SEMICONDUCTOR DEVICES
Fixture for simultaneously supporting several components for electrical testing
[NASA-CASE-XNP-06032] c09 N69-21926
Semiconductor p-n junction on needle apex to provide stress and strain sensor
[NASA-CASE-XLA-04980] c09 N69-27422
Selective gold diffusion on monolithic silicon chips for switching and nonswitching amplifier devices and circuits and linear and digital logic circuits
[NASA-CASE-FRC-10072] c09 N70-11148
Extra-long monostable multivibrator employing bistable semiconductor switch to allow charging of timing circuit
[NASA-CASE-XGS-00381] c09 N70-34819
Method of forming thin window drifted silicon charged particle detector
[NASA-CASE-XLE-00808] c24 N71-10560
Doping silicon material with gadolinium to increase radiation resistance of solar cells
[NASA-CASE-XLE-02792] c26 N71-10607
Separation of semiconductor wafer into chips bounded by scribe lines
[NASA-CASE-FRC-10138] c26 N71-14354
Voltage tunable Gunn effect semiconductor for microwave generation
[NASA-CASE-XER-07894] c09 N71-18721

Indicator device for monitoring charge of wet cell battery, using semiconductor light emitter and photodetector
[NASA-CASE-NPO-10194] c03 N71-20407
Signaling summary alarm circuit with semiconductor switch for faulty contact indications
[NASA-CASE-XLE-03061-1] c10 N71-24798
Method for temperature compensating semiconductor gages by exposure to high energy radiation
[NASA-CASE-XLA-04555-1] c14 N71-25892
Development and characteristics of fluid oscillator analog to digital converter with variable frequency controlled by signal passing through conditioning circuit
[NASA-CASE-LEW-10345-1] c10 N71-25899
Volume displacement transducer for leak detection in hermetically sealed semiconductor devices
[NASA-CASE-ERC-10033] c14 N71-26672
Inverter drive circuit for semiconductor switch
[NASA-CASE-LEW-10233] c10 N71-27126
Test chambers with orifice and helium mass spectrometer for detecting leak rate of encapsulated semiconductor devices
[NASA-CASE-ERC-10150] c14 N71-28992
Semiconductor device manufacture using refractory dielectrics as diffusant masks and interconnection insulating materials
[NASA-CASE-XER-06476-1] c26 N72-17820
Single crystal film semiconductor devices
[NASA-CASE-ERC-10222] c09 N72-22199
Development of process for forming insulating layer between two electrical conductor or semiconductor materials
[NASA-CASE-LEW-10489-1] c15 N72-25447
Multiterminal Gunn-type semiconductor microwave generator for producing stable signals
[NASA-CASE-XER-07895] c26 N72-25679
Miniature piezojunction semiconductor transducer with in situ stress coupling
[NASA-CASE-ERC-10087-2] c14 N72-31446
Development and characteristics of hermetically sealed coaxial package for containing microwave semiconductor components
[NASA-CASE-GSC-10791-1] c15 N73-14469
Semiconductor projectile impact detector
[NASA-CASE-MFS-23008-1] c35 N76-19405
Process for fabricating SiC semiconductor devices
[NASA-CASE-LEW-12094-1] c76 N76-25049
An improved method and apparatus for use in examining the lattice of a semiconductor wafer by X-ray diffraction
[NASA-CASE-MFS-23315-1] c76 N76-32029
Application of semiconductor diffusants to solar cells by screen printing
[NASA-CASE-LEW-12775-1] c44 N77-24589

SEMICONDUCTOR JUNCTIONS
Gallium arsenide solar cell preparation by surface deposition of cuprous iodide on thin n-type polycrystalline layers and heating in iodine vapor
[NASA-CASE-XNP-01960] c09 N71-23027
Miniature electromechanical junction transducer operating on piezojunction effect and utilizing epoxy for stress coupling component
[NASA-CASE-ERC-10087] c14 N71-27334
Resin for protecting p-n semiconductor junction surface
[NASA-CASE-ERC-10339-1] c18 N73-30532

SEMICONDUCTORS (MATERIALS)
Hole mobility of deposited semiconductor films in vacuum utilizing thermal gradient
[NASA-CASE-XKS-04614] c15 N69-21460
Semiconductor in resonant cavity for improving signal to noise ratio of communication receiver
[NASA-CASE-MSC-12259-1] c07 N70-12616
Improved semiconductor multivibrator circuit which approaches 100 percent efficiency
[NASA-CASE-XAC-00942] c10 N71-16042
Fabrication of sintered impurity semiconductor brushes for electrical energy transfer
[NASA-CASE-XNP-01016] c26 N71-17818
Binding layer of semiconductor particles by electrodeposition
[NASA-CASE-XNP-01959] c26 N71-23043
Gadolinium or samarium doped-silicon semiconductor material with resistance to radiation damage for use in solar cells
[NASA-CASE-XLE-10715] c26 N71-23292
Characteristics of infrared photodetectors manufactured from semiconductor material irradiated by electron beam
[NASA-CASE-LAR-10728-1] c14 N73-12445
Traveling wave solid state amplifier utilizing a semiconductor with negative differential mobility
[NASA-CASE-HQN-10069] c33 N75-27251
Vapor deposition apparatus --- semiconductors and gallium arsenides
[NASA-CASE-HQN-10462] c25 N75-29192
Field effect transistor and method of construction thereof
[NASA-CASE-MFS-23312-1] c33 N76-26394

SENSITIVITY
Design of active RC network capable of operating at high Q values with reduced sensitivity to gain amplification and number of passive components
[NASA-CASE-ARC-10042-2] c10 N74-11256

SENSORS
Bonding method in the manufacture of continuous regression rate sensor devices
[NASA-CASE-LAR-10337-1] c24 N75-30260
Medical subject monitoring systems --- multichannel monitoring systems
[NASA-CASE-MSC-14180-1] c52 N76-14757

SENSORY PERCEPTION
Prosthetic limb with tactile sensing device
[NASA-CASE-MFS-16570-1] c05 N73-32013

SEPARATED FLOW
Thrust vector control by secondary injection of fluid into rocket nozzle flow field to separate exhaust flow
[NASA-CASE-XLE-00208] c28 N70-34294
Double hinged flap for boundary layer control over trailing edges of wings
[NASA-CASE-XLA-01290] c02 N70-42016
Separation cell with permeable membranes for fluid mixture component separation
[NASA-CASE-XMS-02952] c18 N71-20742
Flow separation detector
[NASA-CASE-ARC-11046-1] c35 N76-28535

SEPARATORS
Condenser-separator for dehumidifying air utilizing sintered metal surface
[NASA-CASE-XLA-08645] c15 N69-21465
Umbilical separator for rockets
[NASA-CASE-XNE-00425] c11 N70-38202
Liquid-gas separator adapted for use in zero gravity environment - drawings
[NASA-CASE-XMS-01624] c15 N70-40062
Describing apparatus for separating gas from cryogenic liquid under zero gravity and for venting gas from fuel tank
[NASA-CASE-XLE-00586] c15 N71-15968
Liquid-gaseous centrifugal separator for weightlessness environment
[NASA-CASE-XLA-00415] c15 N71-16079
Development of liquid separating system using capillary device connected to flexible bladder storage chamber
[NASA-CASE-XMS-13052] c14 N71-20427
Vapor-liquid separator design with vapor driven pump for separated liquid pumping for application in propellant transfer
[NASA-CASE-XNF-04042] c15 N71-23023
Device for removing air from water for use in life support systems in manned space flight
[NASA-CASE-XLA-8914] c15 N73-12492
Centrifugal lyophobic separator
[NASA-CASE-LAR-10194-1] c34 N74-30608
Fluid control apparatus and method
[NASA-CASE-LAR-11110-1] c34 N75-26282
Low gravity phase separator
[NASA-CASE-MSC-14773-1] c31 N75-32262
Method and apparatus for fluffing, separating, and cleaning fibers
[NASA-CASE-LAR-11224-1] c37 N76-18456
Flexible formulated plastic separators for alkaline batteries
[NASA-CASE-LEW-12363-1] c44 N76-19552
Inorganic-organic battery separator for alkaline batteries
[NASA-CASE-LEW-12649-1] c44 N76-31674
Gels as battery separators for soluable electrode cells

[NASA-CASE-LEW-12364-1] c44 N77-22606
SEQUENCING
Synchronous counter design incorporating cascaded binary stages driven by previous stages and inputs through NAND gates
[NASA-CASE-XGS-02440] c08 N71-19432
Pulse duration control device for driving slow response time loads in selected sequence including switching and delay circuits and magnetic storage
[NASA-CASE-XGS-04224] c10 N71-26418
Digital function generator for generating any arbitrary single valued function
[NASA-CASE-NPO-11104] c08 N72-22165
MCD 2 sequential function generator for multibit sequence, with two-bit shift register for each pair of bits
[NASA-CASE-NPO-10636] c08 N72-25210
Linear shift register with feedback logic for generating pseudonoise linear recurring binary sequences
[NASA-CASE-NPO-11406] c08 N73-12175
Mechanical sequencer
[NASA-CASE-MSC-19536-1] c37 N77-22482
SEQUENTIAL ANALYSIS
Binary coded sequential acquisition ranging system for distance measurements
[NASA-CASE-NPO-11194] c08 N72-25209
Event sequence detector with several input and shift register responsive to clock pulses
[NASA-CASE-NPO-11703-1] c10 N73-32144
SEQUENTIAL COMPUTERS
Digital data reformatter/deserializer
[NASA-CASE-NPO-13676-1] c60 N77-24781
SEQUENTIAL CONTROL
Linear three-tap feedback shift register
[NASA-CASE-NPO-10351] c08 N71-12503
Binary sequence detector with few memory elements and minimized logic circuit complexity
[NASA-CASE-XNP-05415] c08 N71-12505
Sequencing device utilizing planetary gear set
[NASA-CASE-MSC-19514-1] c37 N77-19459
SERUMS
Reduction of blood serum cholesterol
[NASA-CASE-NPO-12119-1] c52 N75-15270
SERVICE LIFE
Service life of electromechanical device for generating sine/cosine functions
[NASA-CASE-LAR-10503-1] c09 N72-21248
SERVOAMPLIFIERS
Pneumatic servoamplifier for controlling flow regulator
[NASA-CASE-MSC-12121-1] c15 N71-27147
SERVOCONTROL
Electronic and mechanical scanning control system for monopulse tracking antenna
[NASA-CASE-XGS-05582] c07 N69-27460
Proportional controller for regulating aircraft or spacecraft motion about three axes
[NASA-CASE-XAC-03392] c03 N70-41954
Modulating and controlling intensity of light beam from high temperature source by servocontrolled rotating cylinders
[NASA-CASE-XMS-04300] c09 N71-19479
Servocontrol system for measuring local stresses at geometric discontinuity in stressed material
[NASA-CASE-XLA-08530] c32 N71-25360
System to control speed of hydraulically movable members by limiting energy applied to actuators with hydraulic servo loop
[NASA-CASE-ARC-10131-1] c15 N71-27754
Digital servo controller --- for rotating antenna shaft
[NASA-CASE-KSC-10769-1] c33 N74-29556
Digital servo control of random sound test excitation --- in reverberant acoustic chamber
[NASA-CASE-NPO-11623-1] c71 N74-31148
Phase-locked servo system --- for synchronizing the rotation of slip ring assembly
[NASA-CASE-MFS-22073-1] c33 N75-13139
Servo-controlled intravital microscope system
[NASA-CASE-NPO-13214-1] c35 N75-25123
SERVOMECHANISMS
Servo system for retroreflector of Michelson interferometer
[NASA-CASE-NPO-10300] c14 N71-17662
Mechanical function generators with potentiometer as sensing element
[NASA-CASE-XAC-00001] c15 N71-28952
Closed loop servosystem for variable speed tape recorders ontcard spacecraft
[NASA-CASE-NPO-10700] c07 N71-33613
Characteristics of lightweight actuator for imparting linear motion using elongated output shaft
[NASA-CASE-NPO-11222] c15 N72-25456
Development and characteristics of rotary actuator for use on spacecraft to deploy and support pivotal structures such as solar panels
[NASA-CASE-NPO-10680] c31 N73-14855
Method and apparatus for providing a servodrive signal in a high speed stepping interferometer
[NASA-CASE-NPO-13569-1] c35 N75-21600
Simulator for practicing the mating of an observer-controlled object with a target
[NASA-CASE-MFS-23052-2] c14 N77-18179
Hydraulic drain means for servo-systems
[NASA-CASE-NPO-10316-1] c37 N77-22479
Method and apparatus for providing a servo drive signal in a high-speed stepping interferometer
[NASA-CASE-NPO-13569-2] c33 N77-28395
SERVOMOTORS
Automatic closed circuit television arc guidance control for welding joints
[NASA-CASE-MFS-13046] c07 N71-19433
Electric motor control system with pulse width modulation for providing automatic null seeking servo
[NASA-CASE-XMF-05195] c10 N71-24861
Development and characteristics of cyclically operable, optical shutter for use as focal plane shutter for transmitting single radiation pulses
[NASA-CASE-NPO-10758] c14 N73-14427
Development and characteristics of rotary actuator for use on spacecraft to deploy and support pivotal structures such as solar panels
[NASA-CASE-NPO-10680] c31 N73-14855
Servo valve
[NASA-CASE-LAR-11643-1] c37 N75-13268
SHAFTS (MACHINE ELEMENTS)
Fatigue resistant shear pin with hollow shaft and two plugs
[NASA-CASE-XLA-09122] c15 N69-27505
Elastic universal joint for rocket motor mounting
[NASA-CASE-XNP-00416] c15 N70-36947
Air brake device for absorbing and measuring power from rotating shafts
[NASA-CASE-XLE-00720] c14 N70-40201
Two axis flight controller with potentiometer control shafts directly coupled to rotatable ball members
[NASA-CASE-XFR-04104] c03 N70-42073
Ratchet mechanism for high speed operation at reduced backlash
[NASA-CASE-MFS-12805] c15 N71-17805
Universal joints for connecting two displaced shafts or members
[NASA-CASE-NPO-10646] c15 N71-28467
Development of mating flat surfaces to inhibit leakage of fluid around shafts
[NASA-CASE-XLE-10326-2] c15 N72-29488
Fatigue life of hybrid antifriction bearings at ultrahigh speeds
[NASA-CASE-LEW-11152-1] c15 N73-32359
Spiral groove seal --- for hydraulic rotating shaft
[NASA-CASE-LEW-10326-3] c37 N74-10474
Hole cutter --- drill bits and rotating shaft
[NASA-CASE-MFS-22649-1] c37 N75-25186
Counter pumping debris excluder and separator
[NASA-CASE-LEW-11855-1] c37 N76-20487
Circumferential shaft seal
[NASA-CASE-LEW-12119-1] c37 N76-20488
Adjustable securing base
[NASA-CASE-MSC-19666-1] c37 N76-31529
Non-floating universal joint
[NASA-CASE-MSC-19546-1] c37 N77-25536
Shaft seal assembly for high speed and high pressure applications
[NASA-CASE-LEW-11873-1] c37 N77-27404
Twin-capacitive shaft angle encoder with analog output signal
[NASA-CASE-ARC-10897-1] c33 N77-31404
SHALES
In-situ laser retorting of oil shale
[NASA-CASE-LEW-12217-1] c36 N77-18429

SHAPED CHARGES
Coupling device for linear shaped charge for space vehicle abort system
[NASA-CASE-XLA-00189] c33 N70-36846
Development of remotely controlled shaped charge for lateral displacement of rocket stages after separation
[NASA-CASE-XLA-04804] c31 N71-23008
SHAPERS
Mandrel for shaping solid propellant rocket fuel into engine casing
[NASA-CASE-XLA-00304] c27 N70-34783
Hand tool for forming dimples and nipples on end portion of tubes
[NASA-CASE-XMS-06876] c15 N71-21536
Dielectric apparatus for heating, fusing, and hardening of organic matrix to form plastic material into shaped product
[NASA-CASE-LAR-10121-1] c15 N71-26721
SHARKS
Conditioning tanned sharkskin for use as abrasive resistant clothing
[NASA-CASE-XMS-09691-1] c18 N71-15545
SHEAR CREEP
Measuring shear-creep compliance of solid and liquid materials used in spacecraft components
[NASA-CASE-XLE-01481] c14 N71-10781
SHEAR FLOW
Shear modulated fluid amplifier of high pressure hydraulic vortex amplifier type
[NASA-CASE-MFS-10412] c12 N71-17578
SHEAR PROPERTIES
Describing instrument capable of measuring true shear viscosity of liquids and viscoelastic materials
[NASA-CASE-XNP-09462] c14 N71-17584
SHEAR STRESS
Fatigue resistant shear pin with hollow shaft and two plugs
[NASA-CASE-XLA-09122] c15 N69-27505
Development of combined velocimeter and accelerometer based on color changes in liquid crystalline material subjected to shear stresses
[NASA-CASE-ERC-10292] c14 N72-25410
Bonded joint and method --- for reducing peak shear stress in adhesive bonds
[NASA-CASE-LAR-10900-1] c37 N74-23064
SHELLS (STRUCTURAL FORMS)
Channel-type shell construction for rocket engines and related configurations
[NASA-CASE-XLE-00144] c28 N70-34860
SHIELDING
Flexible bellows joint shielding sleeve for propellant transfer pipelines
[NASA-CASE-XNP-01655] c15 N71-28937
Shielded flat conductor cable of ribbonlike wires laminates in thin flexible insulation
[NASA-CASE-MFS-13687-2] c09 N72-22198
System for the measurement of ultra-low stray light levels --- light shields and baffles
[NASA-CASE-MFS-23513-1] c74 N77-14842
SHIFT REGISTERS
Binary to binary-coded decimal converter using single set of logic circuits notwithstanding number of shift register decades
[NASA-CASE-XNP-00432] c08 N70-35423
Linear three-tap feedback shift register
[NASA-CASE-NPO-10351] c08 N71-12503
Computer circuit performing both counting and shifting logic operations also capable of miniaturization and integration in basic circuits
[NASA-CASE-XNP-01753] c08 N71-22897
Commutator for steering precisely controlled bidirectional currents through numerous loads by use of magnetic core shift registers
[NASA-CASE-NPO-10743] c08 N72-21199
Multistage feedback shift register with states decomposable into cycles of equal length
[NASA-CASE-NPO-11082] c08 N72-22167
MCD 2 sequential function generator for multibit sequence, with two-bit shift register for each pair of bits
[NASA-CASE-NPO-10636] c08 N72-25210
Linear shift register with feedback logic for generating pseudonoise linear recurring binary sequences
[NASA-CASE-NPO-11406] c08 N73-12175
Family of m-ary linear feedback shift register with binary logic
[NASA-CASE-NPO-11868] c10 N73-20254
Nonrecursive counting digital filter containing shift register
[NASA-CASE-NPO-11821-1] c08 N73-26175
Event sequence detector with several input and shift register responsive to clock pulses
[NASA-CASE-NPO-11703-1] c10 N73-32144
Method and apparatus for decoding compatible convolutional codes
[NASA-CASE-MSC-14070-1] c32 N74-32598
Nonlinear nonsingular feedback shift registers
[NASA-CASE-NPO-13451-1] c33 N76-14373
Selective data segment monitoring system --- using shift registers
[NASA-CASE-ARC-10899-1] c60 N77-19760
Digital data reformatter/deserializer
[NASA-CASE-NPO-13676-1] c60 N77-24781
SHOCK ABSORBERS
Pivotal shock absorbing assembly for use as load distributing portion in landing gear systems of space vehicles
[NASA-CASE-XMF-03856] c31 N70-34159
Energy dissipating shock absorbing system for land payload recovery or vehicle braking
[NASA-CASE-XLA-00754] c15 N70-34850
Shock absorbing couch for body support under high acceleration or deceleration forces
[NASA-CASE-XMS-01240] c05 N70-35152
Low onset rate energy absorber in form of strut assembly for crew couch of Apollo command module
[NASA-CASE-MSC-12279-1] c15 N70-35679
Landing pad assembly for aerospace vehicles
[NASA-CASE-XMF-02853] c31 N70-36654
Spacecraft shock absorbing system for soft landings
[NASA-CASE-XMF-02108] c31 N70-36845
Shock absorber for landing gear of lunar or planetary landing modules
[NASA-CASE-XMF-01045] c15 N70-40354
Shock absorbing articulated multiple couch assembly
[NASA-CASE-MSC-11253] c05 N71-12343
Design and development of double acting shock absorber for spacecraft docking operations
[NASA-CASE-XMS-03722] c15 N71-21530
Impact energy absorber with decreasing absorption rate
[NASA-CASE-XLA-01530] c14 N71-23092
Energy absorbing crew couch strut for Apollo command module
[NASA-CASE-MSC-12279] c15 N72-17450
Shock absorber for use as protective barrier in impact energy absorbing system
[NASA-CASE-NPO-10671] c15 N72-20443
Translatory shock absorber for attitude sensors
[NASA-CASE-MFS-22905-1] c19 N76-22284
An improved vehicular impact absorption system
[NASA-CASE-NPO-14014-1] c37 N77-31501
SHOCK LOADS
Damper system for alleviating air flow shock loads on wind tunnel models
[NASA-CASE-XLA-09480] c11 N71-33612
SHOCK MEASURING INSTRUMENTS
Semiconductor projectile impact detector
[NASA-CASE-MFS-23008-1] c35 N76-19405
SHOCK RESISTANCE
Removable potting compound for instrument shock protection
[NASA-CASE-XLA-00482] c15 N70-36409
Thermal shock resistant hafnia ceramic materials
[NASA-CASE-LAR-10894-1] c18 N73-14584
Thermal shock and erosion resistant tantalum carbide ceramic material
[NASA-CASE-LAR-11902-1] c27 N76-23436
SHOCK TUBES
Knife structure for controlling rupture of shock tube diaphragms
[NASA-CASE-XAC-00731] c11 N71-15960
Design, development, and operation of shock tube with bypass piston tunnel
[NASA-CASE-NPO-12109] c11 N72-22245
Annular arc accelerator shock tube
[NASA-CASE-NPO-13528-1] c09 N77-10071
SHOCK WAVE INTERACTION
Absorptive, nonreflecting barrier mounted between closely spaced jet engines on supersonic aircraft, for preventing shock wave

interference
[NASA-CASE-XLA-02865] c28 N71-15563
SHOCK WAVE LUMINESCENCE
Method and apparatus for measuring shock layer radiation distribution about high velocity objects
[NASA-CASE-XAC-02970] c14 N69-39896
SHOCK WAVE PROFILES
Method and apparatus for measuring shock layer radiation distribution about high velocity objects
[NASA-CASE-XAC-02970] c14 N69-39896
SHOCK WAVES
Apparatus for mechanically dispersing ultrafine metal powders subjected to shock waves
[NASA-CASE-XLE-04946] c17 N71-24911
Electrical device for developing converging spherical shock waves
[NASA-CASE-MFS-20890] c14 N72-22439
Production of intermetallic compounds by effect of shock waves from explosions and compaction of powder
[NASA-CASE-MFS-20861-1] c18 N73-32437
Shock position sensor for supersonic inlets --- measuring pressure in the throat of a supersonic inlet
[NASA-CASE-LEW-11915-1] c35 N76-14431
SHOES
Jet shoes for space locomotion
[NASA-CASE-XLA-08491] c05 N69-21380
SHORT CIRCUITS
Use of silicon controlled rectifier shorting circuit to protect thermoelectric generator source from thermal destruction
[NASA-CASE-XGS-04808] c03 N69-25146
Vacuum thermionic converter with short-circuited triodes and increased electron transmission and conversion efficiency
[NASA-CASE-XLE-01015] c03 N69-39898
Apparatus for automatically testing analog to digital converters for open and short circuits
[NASA-CASE-XLA-06713] c14 N71-28991
SHOT PEENING
Method of peening and portable peening gun
[NASA-CASE-MFS-23047-1] c37 N76-18454
SHROUDS
Shrouded composite propulsion system configuration
[NASA-CASE-XLA-01043] c28 N71-10780
Two dimensional wedge/translating shroud nozzle
[NASA-CASE-LAR-11919-1] c07 N76-22202
SHUTTERS
High speed shutter --- electrically actuated ribbon loop for shuttering optical or fluid passageways
[NASA-CASE-ARC-10516-1] c70 N74-21300
SIDEBANDS
Phase locked loop with sideband rejecting properties in continuous wave tracking radar
[NASA-CASE-XNP-02723] c07 N70-41680
SIDELOBE REDUCTION
Multiple mode horn antenna with radiation pattern of equal beamwidths and suppressed sidelobes
[NASA-CASE-XNP-01057] c07 N71-15907
SIGNAL ANALYSIS
Design and development of signal detection and tracking apparatus
[NASA-CASE-XGS-03502] c10 N71-20852
Method and apparatus for a single channel digital communications system --- synchronization of received PCM signal by digital correlation with reference signal
[NASA-CASE-NPO-11302-2] c32 N74-10132
Differential phase shift keyed signal resolver
[NASA-CASE-MSC-14066-1] c33 N74-27705
Correlation type phase detector --- with time correlation integrator for frequency multiplexed signals
[NASA-CASE-GSC-11744-1] c33 N75-26243
Real time analysis of voiced sounds
[NASA-CASE-NPO-13465-1] c32 N76-31372
Digital plus analog output encoder
[NASA-CASE-GSC-12115-1] c62 N76-31946
SIGNAL ANALYZERS
Monitoring system for signal amplitude ranges over predetermined time interval
[NASA-CASE-XMS-04061-1] c09 N69-39885
Feedback controller for sampling error signals within single control formulation time interval
[NASA-CASE-GSC-10554-1] c08 N71-29033
Development of family of frequency to amplitude converters for frequency analysis of complex input signal waveforms
[NASA-CASE-MSC-12395] c09 N72-25257
Device for performing statistical time-series analysis of complex electrical signal waveforms
[NASA-CASE-MSC-12428-1] c10 N73-25240
Pulse stretcher for narrow pulses
[NASA-CASE-MSC-14130-1] c33 N74-32711
Electronic optical transfer function analyzer
[NASA-CASE-MFS-21672-1] c74 N76-19935
Speech analyzer
[NASA-CASE-GSC-11898-1] c32 N77-30309
SIGNAL DETECTION
Position locating system for remote aircraft using voice communication and digital signals
[NASA-CASE-GSC-10087-2] c21 N71-13958
Saturable magnetic core and signal detection for indicating impending saturation
[NASA-CASE-ERC-10089] c23 N72-17747
Anti-multipath digital signal detector
[NASA-CASE-LAR-11827-1] c32 N77-10392
Hearing aid malfunction detection system
[NASA-CASE-MSC-14916-1] c33 N77-13335
Multiple rate digital command detection system with range clean-up capability
[NASA-CASE-NPO-13753-1] c32 N77-20289
SIGNAL DETECTORS
Roughness detector for recording surface pattern of irregularities
[NASA-CASE-XLA-00203] c14 N70-34161
Electrical testing apparatus for detecting amplitude and width of transient pulse
[NASA-CASE-XNP-06519] c09 N71-12519
System for monitoring presence of neutrals in streams of ions - ion engine control
[NASA-CASE-XNP-02592] c24 N71-20518
Development of apparatus for generating output signal commensurate with information contained in input signal
[NASA-CASE-ERC-10041] c08 N71-29138
SIGNAL DISTORTION
Low distortion receiver for bi-level baseband PCM waveforms
[NASA-CASE-MSC-14557-1] c32 N76-16249
SIGNAL ENCODING
Adaptive compression signal processor for PCM communication systems
[NASA-CASE-XLA-03076] c07 N71-11266
SIGNAL GENERATORS
Plural recorder system which limits signal recording to signals of sufficient interest
[NASA-CASE-XMS-06949] c09 N69-21467
Alternating current signal generator providing plurality of amplitude modulated output signals
[NASA-CASE-XNP-05612] c09 N69-21468
Circuitry for generating sync signals in FM communication systems including video information
[NASA-CASE-XNP-10830] c07 N71-11281
Apparatus for generating microwave signals at progressively related phase angles for driving antenna array
[NASA-CASE-ERC-10046] c10 N71-18722
System generating sidereal frequency signals from signals of standard solar frequency without use of mixing operations or feedback loops
[NASA-CASE-XGS-02610] c14 N71-23174
Hand controller operable about three respectively perpendicular axes and capable of actuating signal generators for attitude control devices
[NASA-CASE-XMS-07487] c15 N71-23255
Voltage controlled oscillators and pulse amplitude modulation for signal ratio system
[NASA-CASE-XNP-04367] c09 N71-23545
Sampling circuit for signal processing in multiplex transmission by Fourier analysis
[NASA-CASE-NPO-10388] c07 N71-24622
Signaling summary alarm circuit with semiconductor switch for faulty contact indications
[NASA-CASE-XLE-03061-1] c10 N71-24798
Adaptive signal generating system and logic circuits for satellite television systems
[NASA-CASE-GSC-11367] c10 N71-26374

Device for monitoring voltage by generating signal when voltages drop below predetermined value
[NASA-CASE-KSC-10020] c10 N71-27338
System for control of variable signal generator
[NASA-CASE-NPO-11064] c07 N72-11150
Digital function generator for generating any arbitrary single valued function
[NASA-CASE-NPO-11104] c08 N72-22165
Development of Hall effect transducer for converting mechanical shaft rotations into proportional electrical signals
[NASA-CASE-LAR-10620-1] c09 N72-25255
Multiterminal Gunn-type semiconductor microwave generator for producing stable signals
[NASA-CASE-XER-07895] c26 N72-25679
Audio frequency analysis circuit for determining, displaying, and recording frequency of sweeping audio frequency signal
[NASA-CASE-NPO-11147] c14 N72-27408
Digital servo control of random sound test excitation --- in reverberant acoustic chamber
[NASA-CASE-NPO-11623-1] c71 N74-31148
Signal conditioner test set
[NASA-CASE-KSC-10750-1] c35 N75-12270
System for generating timing and control signals
[NASA-CASE-NPO-13125-1] c33 N75-19519
Pseudo-noise test set for communication system evaluation --- test signals
[NASA-CASE-MFS-22671-1] c35 N75-21582
NDIR gas analyzer based on absorption modulation ratios for known and unknown samples
[NASA-CASE-ARC-10802-1] c35 N75-30502
Twin-capacitive shaft angle encoder with analog output signal
[NASA-CASE-ARC-10897-1] c33 N77-31404

SIGNAL MEASUREMENT

Traveling wave tube circuit
[NASA-CASE-LEW-12013-1] c33 N77-17360

SIGNAL MIXING

Impedance transformation device for signal mixing
[NASA-CASE-XGS-01110] c07 N69-24334

SIGNAL PROCESSING

Adaptive compression signal processor for PCM communication systems
[NASA-CASE-XIA-03076] c07 N71-11266
Conversion system for transforming slow scan rate of Apollo TV camera on moon to fast scan of commercial TV
[NASA-CASE-XMS-07168] c07 N71-11300
Difference indicating circuit used in conjunction with device measuring gravitational fields
[NASA-CASE-XNP-08274] c10 N71-13537
Circuitry for developing autocorrelation function continuously within signal receiving period
[NASA-CASE-XNP-00746] c07 N71-21476
System generating sidereal frequency signals from signals of standard solar frequency without use of mixing operations or feedback loops
[NASA-CASE-XGS-02610] c14 N71-23174
Feedback integrating circuit with grounded capacitor for signal processing
[NASA-CASE-XAC-10607] c10 N71-23669
Sampling circuit for signal processing in multiplex transmission by Fourier analysis
[NASA-CASE-NPO-10388] c07 N71-24622
Video signal processing system for sampling video brightness levels
[NASA-CASE-NPO-10140] c07 N71-24742
Monopulse scanning network for scanning volumetric antenna pattern
[NASA-CASE-GSC-10299-1] c09 N71-24804
Apparatus for filtering input signals
[NASA-CASE-NPO-10198] c09 N71-24806
Video sync processor with phase locked system
[NASA-CASE-KSC-10002] c10 N71-25865
Transient video signal tape recorder with expanded playback
[NASA-CASE-ARC-10003-1] c09 N71-25866
Scanning signal phase and amplitude electronic control device with hybrid T waveguide junction
[NASA-CASE-NPO-10302] c10 N71-26142
Variable frequency nuclear magnetic resonance spectrometer providing drive signals over wide frequency range and minimizing noise effects
[NASA-CASE-XNP-09830] c14 N71-26266
Development of apparatus for generating output signal commensurate with information contained in input signal
[NASA-CASE-ERC-10041] c08 N71-29138
Development of electric circuit for production of different pulse width signals
[NASA-CASE-XLA-07788] c09 N71-29139
Phase shifting circuit for selecting phase of input signal
[NASA-CASE-ARC-10269-1] c10 N72-16172
Processing system for semiperiodic electrical signals to produce real time contoured display
[NASA-CASE-MSC-13407-1] c10 N72-20225
Design and characteristics of recording system for selective reprocessing and filtering of data to obtain optimum signal to noise ratios
[NASA-CASE-ERC-10112] c07 N72-21119
Technique for deriving logarithm of input signal using exponentially varying electric signal inversely
[NASA-CASE-ERC-10267] c09 N72-23173
Development and characteristics of telemetry system using computer-accessed circuits and remotely controlled from ground station
[NASA-CASE-NPO-11358] c07 N72-25172
Characteristics of digital data processor using pulse from clock source to derive binary singles to show state of various indicators in processor
[NASA-CASE-GSC-10975-1] c08 N73-13187
Characteristics of two channel telemetry system with two data rate channels for high and low data rate communication
[NASA-CASE-NPO-11572] c07 N73-16121
Measurement system for physical quantity represented by or converted to variable frequency signal
[NASA-CASE-MFS-20658-1] c14 N73-30386
Digital to analog converter for sampled signal reconstruction
[NASA-CASE-MSC-12458-1] c08 N73-32081
Fluid pressure amplifier and system
[NASA-CASE-LAR-10868-1] c33 N74-11050
Low level signal limiter
[NASA-CASE-XLE-04791] c32 N74-22096
Miniature multichannel biotelemeter system
[NASA-CASE-NPO-13065-1] c52 N74-26625
Apparatus and method for processing Korotkov sounds --- for blood pressure measurement
[NASA-CASE-MSC-13999-1] c52 N74-26626
Pulse stretcher for narrow pulses
[NASA-CASE-MSC-14130-1] c33 N74-32711
Continuous Fourier transform method and apparatus --- for the analysis of simultaneous analog signal components
[NASA-CASE-ARC-10466-1] c60 N75-13539
Signal conditioning circuit apparatus --- with constant input impedance
[NASA-CASE-ARC-10348-1] c33 N75-19518
Television noise reduction device
[NASA-CASE-MSC-12607-1] c32 N75-21485
Isolated output system for a class D switching-mode amplifier
[NASA-CASE-MFS-21616-1] c33 N75-30429
Binary to binary coded decimal converter
[NASA-CASE-GSC-12044-1] c60 N76-13781
Compact-bi-phase pulse coded modulation decoder
[NASA-CASE-KSC-10834-1] c33 N76-14371
Filtering device --- removing electromagnetic noise from voice communication signals
[NASA-CASE-MFS-22729-1] c32 N76-21366
System for measuring Reynolds in a turbulently flowing fluid --- signal processing
[NASA-CASE-ARC-10755-2] c34 N76-27517
Surface roughness measuring system
[NASA-CASE-NPO-13862-1] c32 N77-17325
Bit error rate measurement above and below bit rate tracking threshold
[NASA-CASE-MSC-12743-1] c32 N77-19290
Three phase full wave dc motor decoder
[NASA-CASE-GSC-11824-1] c33 N77-26386
Apparatus for determining thermophysical properties of test specimens
[NASA-CASE-LAR-11883-1] c09 N77-27131
Quadraphase demodulation
[NASA-CASE-GSC-12137-1] c32 N77-27272
An interleaving device --- for computer logic circuits used in optical data processing
[NASA-CASE-GSC-12111-2] c60 N77-31800

Analog to digital converter for two-dimensional radiant energy array computers
[NASA-CASE-GSC-11839-3] c60 N77-32731

SIGNAL RECEPTION
Radar signal receiver arrangement for extending range and increasing signal to noise ratio
[NASA-CASE-XNP-00748] c07 N70-36911
Reflectometer for receiver input impedance match measurement
[NASA-CASE-XNP-10843] c07 N71-11267
Diversity receiving system with diversity phase lock
[NASA-CASE-XGS-01222] c10 N71-20841
Design and development of signal detection and tracking apparatus
[NASA-CASE-XGS-03502] c10 N71-20852
Development of optimum pre-detection diversity combining receiving system adapted for use with amplitude modulation, phase modulation, and frequency modulation systems
[NASA-CASE-XGS-00740] c07 N71-23098
Binary data decoding device for use at receiving end of communication channel
[NASA-CASE-NPO-10118] c07 N71-24741
Development of electronic circuit for combining input signals on two separate antennas to form two processed signals
[NASA-CASE-MSC-12205-1] c07 N71-27056
Input signal measurement using liquid crystalline elements
[NASA-CASE-ERC-10275] c26 N72-25680
Filter for third order phase locked loops in signal receivers
[NASA-CASE-NPO-11941-1] c10 N73-27171
Electromechanical actuator for producing mechanical force and/or motion in response to electrical signals
[NASA-CASE-NPO-11738-1] c09 N73-30185
Scan converting video tape recorder
[NASA-CASE-NPO-10166-2] c35 N76-16391

SIGNAL REFLECTION
Reflectometer for receiver input impedance match measurement
[NASA-CASE-XNP-10843] c07 N71-11267

SIGNAL STABILIZATION
Linear accelerator frequency control system
[NASA-CASE-XGS-05441] c10 N71-22962
Development of apparatus for generating output signal commensurate with information contained in input signal
[NASA-CASE-ERC-10041] c08 N71-29138
System for interference signal nulling by polarization adjustment
[NASA-CASE-NPO-13140-1] c32 N75-24982

SIGNAL TO NOISE RATIOS
Semiconductor in resonant cavity for improving signal to noise ratio of communication receiver
[NASA-CASE-MSC-12259-1] c07 N70-12616
Radar signal receiver arrangement for extending range and increasing signal to noise ratio
[NASA-CASE-XNP-00748] c07 N70-36911
Detector assembly for discriminating first signal with respect to presence or absence of second signal at time of occurrence of first signal
[NASA-CASE-XNP-00701] c09 N70-40272
Automatic estimation of signal to noise ratio and other parameters in signal communication systems
[NASA-CASE-XNP-05254] c07 N71-20791
Voltage controlled oscillators and pulse amplitude modulation for signal ratio system
[NASA-CASE-XNP-04367] c09 N71-23545
Design and characteristics of recording system for selective reprocessing and filtering of data to obtain optimum signal to noise ratios
[NASA-CASE-ERC-10112] c07 N72-21119
Development of idler feedback system to reduce electronic noise problem in two parametric amplifiers
[NASA-CASE-LAR-10253-1] c09 N72-25258
Superconductive resonant cavity for improved signal to noise ratio in communication signal
[NASA-CASE-MSC-12259-2] c07 N72-33146
Signal to noise ratio determination circuit using bandpass limiter
[NASA-CASE-GSC-11239-1] c10 N73-25241
Gated compressor, distortionless signal limiter
[NASA-CASE-NPO-11820-1] c32 N74-19788

SIGNAL TRANSMISSION
Synchronizing apparatus for multi-access satellite time division multiplex system
[NASA-CASE-XGS-05918] c07 N69-39974
Electro-mechanical circuit for converting floating intelligence signal to common electrically grounded intelligence recorder
[NASA-CASE-XAC-00086] c09 N70-33182
Demodulator for simultaneous demodulation of two modulating ac signal carriers close in frequency
[NASA-CASE-XNP-01160] c07 N71-11298
Bipolar phase detector and corrector for split phase PCM data signals
[NASA-CASE-XGS-01590] c07 N71-12392
Automatic estimation of signal to noise ratio and other parameters in signal communication systems
[NASA-CASE-XNP-05254] c07 N71-20791
Multiplexed communication system design including automatic correction of transmission errors introduced by frequency spectrum shifts
[NASA-CASE-XNP-01306] c07 N71-20814
Adaptive notch filter, using modulation techniques for reversed phase noise signal
[NASA-CASE-XNP-01892] c10 N71-22986
Pulse generator for synchronizing or resetting electronic signals without requiring separate external source
[NASA-CASE-XGS-03632] c09 N71-23311
Device for locating electrically nonlinear objects and determining distance to object by FM signal transmission
[NASA-CASE-KSC-10108] c14 N73-25461
Television multiplexing system, using single crystal controlled clock for signal synchronization
[NASA-CASE-KSC-10654-1] c07 N73-30115
Controlled oscillator system with a time dependent output frequency
[NASA-CASE-NPO-11962-1] c33 N74-10194
Pulse code modulated signal synchronizer
[NASA-CASE-MSC-12462-1] c32 N74-20809
Pulse code modulated signal synchronizer
[NASA-CASE-MSC-12494-1] c32 N74-20810
Digital transmitter for data bus communications system
[NASA-CASE-MSC-14558-1] c32 N75-21486
Modulator for tone and binary signals --- phase of modulation of tone and binary signals on carrier waves in communication systems
[NASA-CASE-GSC-11743-1] c32 N75-24981
Rotating joint signal coupler
[NASA-CASE-LAR-11264-1] c33 N75-27261
Method and apparatus for background signal reduction in opto-acoustic absorption measurement
[NASA-CASE-NPO-13683-1] c35 N77-14411
Very narrow band width receiver
[NASA-CASE-GSC-12142-1] c32 N77-20299
Automatic transponder --- measurement of the internal delay time of a transponder
[NASA-CASE-GSC-12075-1] c32 N77-31350

SILANES
Preparation of elastomeric diamine silazane polymers
[NASA-CASE-XNP-04133] c06 N71-20717
Synthesis of high purity dianilinosilanes
[NASA-CASE-XNP-06409] c06 N71-23230
Process for preparing high molecular weight polyaryloxysilanes from lower molecular weight forms
[NASA-CASE-XNP-08674] c06 N71-28807

SILICA GEL
Gels as battery separators for soluable electrode cells
[NASA-CASE-LEW-12364-1] c44 N77-22606

SILICATES
Ultraviolet radiation resistant alkali-metal silicate coatings for temperature control of spacecraft
[NASA-CASE-XGS-04119] c18 N69-39979

SILICIDES
Silicide coating process and composition for protection of refractory metals from oxidation
[NASA-CASE-XLE-10910] c18 N71-29040
Fused silicide coatings containing discrete particles for protecting niobium alloys --- used in space shuttle thermal protection systems and turbine engine components

[NASA-CASE-LEW-11179-1] c27 N76-16229
SILICON
Method of forming thin window drifted silicon charged particle detector
[NASA-CASE-XLE-00808] c24 N71-10560
Gadolinium or samarium doped-silicon semiconductor material with resistance to radiation damage for use in solar cells
[NASA-CASE-XLE-10715] c26 N71-23292
Metal pattern bonding technique for cover glass attachment to silicon solar cells for space applications
[NASA-CASE-XLE-08569] c03 N71-23449
Covered silicon solar cells and method of manufacture --- with polymeric films
[NASA-CASE-LEW-11065-2] c44 N76-14600
SILICON CARBIDES
Deposition method for epitaxial beta SiC films having high degree of crystallographic perfection
[NASA-CASE-ERC-10120] c26 N69-33482
Producing high purity silicon carbide on carbon base by hydrogen reduction of silicon tetrachloride
[NASA-CASE-XLA-00158] c26 N70-36805
Device for producing high purity silicon carbide on carbon base by hydrogen reduction of silicon tetrachloride
[NASA-CASE-XLA-02057] c26 N70-40015
Process for fabricating SiC semiconductor devices
[NASA-CASE-LEW-12094-1] c76 N76-25049
Production of crystals from molten solutions
[NASA-CASE-NPO-13969-2] c76 N77-30984
SILICON COMPOUNDS
Doping silicon material with gadolinium to increase radiation resistance of solar cells
[NASA-CASE-XLE-02792] c26 N71-10607
Process for preparing disilanols with in-chain perfluoroalkyl groups
[NASA-CASE-MFS-20979-2] c06 N73-32030
SILICON CONTROLLED RECTIFIERS
Use of silicon controlled rectifier shorting circuit to protect thermoelectric generator source from thermal destruction
[NASA-CASE-XGS-04808] c03 N69-25146
Silicon controlled rectifier inverter with compensation of transients to avoid false gating
[NASA-CASE-XLA-08507] c09 N69-39984
Reversible ring counter using cascaded single silicon controlled rectifier stages
[NASA-CASE-XGS-01473] c09 N71-10673
Silicon controlled rectifier pulse gate amplifier for blocking false gating caused by negative transient voltages
[NASA-CASE-XLA-07497] c09 N71-12514
SILICON DIOXIDE
Intermittent type silica gel adsorption refrigerator for providing temperature control for spacecraft components
[NASA-CASE-XNP-00920] c15 N71-15906
Nose cone mounted heat resistant antenna comprising plurality of adjacent layers of silica not introducing paths of high thermal conductivity through ablative shield
[NASA-CASE-XMS-04312] c07 N71-22984
Method and apparatus for stable silicon dioxide layers on silicon grown in silicon nitride ambient
[NASA-CASE-ERC-10073-1] c24 N74-19769
Silica reusable surface insulation
[NASA-CASE-ARC-10721-1] c27 N76-22376
Two-component ceramic coating for silica insulation
[NASA-CASE-MSC-14270-1] c27 N76-22377
SILICON FILMS
Deposition method for epitaxial beta SiC films having high degree of crystallographic perfection
[NASA-CASE-ERC-10120] c26 N69-33482
SILICON JUNCTIONS
Improving radiation resistance of silicon semiconductor junctions by doping with lithium
[NASA-CASE-XGS-07801] c09 N71-12513
SILICON NITRIDES
Method and apparatus for stable silicon dioxide layers on silicon grown in silicon nitride ambient
[NASA-CASE-ERC-10073-1] c24 N74-19769
Silicon nitride coated, plastic covered solar cell
[NASA-CASE-LEW-11496-1] c44 N77-14580
SILICON OXIDES
Three-component ceramic coating for silica insulation
[NASA-CASE-MSC-14270-2] c27 N76-23426
SILICON POLYMERS
Oxygen post-treatment of plastic surfaces coated with plasma polymerized silicon-containing monomers
[NASA-CASE-ARC-10915-2] c27 N77-20256
SILICON RADIATION DETECTORS
Lithium drifted silicon radiation detector with gold rectifying contacts
[NASA-CASE-XLE-10529] c14 N69-23191
Silicon radiation detecting probe design for in vivo biomedical use
[NASA-CASE-XMS-01177] c05 N71-19440
SILICON TRANSISTORS
Vapor deposition method for forming metallized tungsten contacts on silicon substrates
[NASA-CASE-GSC-10695-1] c09 N72-25259
Development of method and apparatus for detecting surface ions on silicon diodes and transistors
[NASA-CASE-ERC-10325] c15 N72-25457
SILICONE RESINS
Vacuum pressure molding technique
[NASA-CASE-LAR-10073-1] c37 N76-24575
SILICONIZING
Vapor deposited laminated nitride-silicon coating for corrosion prevention of carbonaceous surfaces
[NASA-CASE-XLA-00284] c15 N71-16075
SILOXANES
Synthesis of siloxane containing epoxy polymers with low dielectric properties
[NASA-CASE-MFS-13994-1] c06 N71-11240
Method for producing alternating ether-siloxane copolymers with stable properties when exposed to elevated temperatures and UV radiation
[NASA-CASE-XMF-02584] c06 N71-20905
Synthesis of siloxane containing epoxide and diamine polymers
[NASA-CASE-MFS-13994-2] c06 N72-25148
Silphenylenesiloxane polymer with in-chain perfluoroalkyl groups
[NASA-CASE-MFS-20979] c06 N72-25151
Fluid polydimethylsiloxane resin with low outgassing properties in cured state
[NASA-CASE-GSC-11358-1] c06 N73-26100
SILVER
Dry electrode manufacture, using silver powder with cement
[NASA-CASE-FRC-10029-2] c05 N72-25121
SILVER ALLOYS
Brazing alloy composition
[NASA-CASE-XMF-06053] c26 N75-27126
SILVER CHLORIDES
Electrochemically reversible silver-silver chloride electrode for detecting bioelectric potential differences generated by human muscles and organs
[NASA-CASE-XMS-02872] c05 N69-21925
Silver chloride use in technique for fusion bonding of graphite to silver, glass, ceramics, and certain other metals
[NASA-CASE-XGS-00963] c15 N69-39735
SILVER COMPOUNDS
Description of electrical equipment and system for purification of waste water by producing silver ions for bacterial control
[NASA-CASE-MSC-10960-1] c03 N71-24718
SILVER ZINC BATTERIES
Elimination of two step voltage discharge property of silver zinc batteries by using divalent silver oxide capacity of cell to charge anodes to monovalent silver state
[NASA-CASE-XGS-01674] c03 N71-29129
SIMULATORS
Development of apparatus for simulating zero gravity conditions
[NASA-CASE-MFS-12750] c27 N71-16223
Phonocardiogram simulator producing electrical voltage waves to control amplitude and duration between simulated sounds
[NASA-CASE-XRS-10804] c05 N71-24606
Sign wave generation simulator for variable amplitude, frequency, damping, and phase

pulses for oscilloscope display
[NASA-CASE-NPO-10251] c10 N71-27365
SINE SERIES
Service life of electromechanical device for generating sine/cosine functions
[NASA-CASE-LAR-10503-1] c09 N72-21248
Function generators for producing complex vibration mode patterns used to identify vibration mode data
[NASA-CASE-LAR-10310-1] c10 N73-20253
SINE WAVES
Sign wave generation simulator for variable amplitude, frequency, damping, and phase pulses for oscilloscope display
[NASA-CASE-NPO-10251] c10 N71-27365
Wideband generator for producing sine wave quadrature and second harmonic of input signal
[NASA-CASE-NPO-11133] c10 N72-20223
Electro-mechanical sine/cosine generator
[NASA-CASE-LAR-11389-1] c33 N77-26387
SINGLE CRYSTALS
Producing high purity silicon carbide on carbon base by hydrogen reduction of silicon tetrachloride
[NASA-CASE-XLA-00158] c26 N70-36805
Single crystal film semiconductor devices
[NASA-CASE-ERC-10222] c09 N72-22199
Growth of gallium nitride crystals
[NASA-CASE-LAR-11302-1] c25 N75-13054
Hall effect magnetometer
[NASA-CASE-LEW-11632-2] c35 N75-13213
Vapor phase growth of groups 3-5 compounds by hydrogen chloride transport of the elements
[NASA-CASE-LAR-11144-1] c25 N75-26043
SINTERING
Condenser-separator for dehumidifying air utilizing sintered metal surface
[NASA-CASE-XLA-08645] c15 N69-21465
Production of refractory bodies with controlled porosity by pressing and heating mixtures of refractory and inert metal powders
[NASA-CASE-LEW-10393-1] c17 N71-15468
SIZE (DIMENSIONS)
Development of apparatus for producing metal powder particles of controlled size
[NASA-CASE-XLE-06461-2] c17 N72-28535
SIZE DETERMINATION
Impact measuring technique for determining size of hypervelocity projectiles
[NASA-CASE-LAR-10913] c14 N72-16282
SIZE SEPARATION
Method and apparatus for precision sizing and joining of large diameter tubes by bulging or constricting overlapping ends
[NASA-CASE-XMF-05114-2] c15 N71-26148
Device which separates and screens particles of soil samples for vidicon viewing in vacuum and reduced gravity environments
[NASA-CASE-XNP-09770-3] c11 N71-27036
SIZING (SHAPING)
Method and apparatus for shaping and joining large diameter metal tubes using magnetomotive forces
[NASA-CASE-XMF-05114] c15 N71-17650
SIZING SCREENS
Method for making screen with unlimited fineness of mesh and screen thickness
[NASA-CASE-XLE-00953] c15 N71-15966
Screen particle separator for soil samples
[NASA-CASE-XNP-09770-2] c15 N72-22483
SKEWNESS
Tape guidance system for multichannel digital recording system
[NASA-CASE-XNP-09453] c08 N71-19420
Automatic character skew and spacing checking network --- of digital tape drive systems
[NASA-CASE-GSC-11925-1] c33 N76-18353
SKID LANDINGS
Nose gear steering system for vehicles with main skids to provide directional stability after loss of aerodynamic control
[NASA-CASE-XLA-01804] c02 N70-34160
SKIN (ANATOMY)
Conditioning tanned sharkskin for use as abrasive resistant clothing
[NASA-CASE-XMS-09691-1] c18 N71-15545
Percutaneous connector device
[NASA-CASE-KSC-10849-1] c52 N77-14738
SKIN (STRUCTURAL MEMBER)
Development of resilient fastener for attaching skin of aerospace vehicles to permit movement of skin relative to framework
[NASA-CASE-XLA-01027] c31 N71-24035
SKIN TEMPERATURE (BIOLOGY)
Thermistor holder for skin temperature measurements
[NASA-CASE-ARC-10855-1] c52 N77-10780
SKIN TEMPERATURE (NON-BIOLOGICAL)
Heat flux sensor adapted for mounting on aircraft or spacecraft to measure aerodynamic heat flux inflow to aircraft skin
[NASA-CASE-XFR-03802] c33 N71-23085
SKIRTS
Inflatable rocket engine nozzle skirt with transpiration cooling
[NASA-CASE-MFS-20619] c28 N72-11708
SKY
Camera arrangement --- for satellite scanning of earth or sky
[NASA-CASE-GSC-12032-2] c35 N76-19408
SLEEP
Development of apparatus and method for quantitatively measuring brain activity as automatic indication of sleep state and level of consciousness
[NASA-CASE-MSC-13282-1] c05 N71-24729
SLEEVES
Nonreuseable energy absorbing device comprising ring member with plurality of recesses, cutting members, and guide member mounted in each recess
[NASA-CASE-XMF-10040] c15 N71-22877
System for enhancing tool-exchange capabilities of a portable wrench
[NASA-CASE-MFS-22283-1] c37 N75-33395
SLENDER BODIES
Support techniques for restraint of slender bodies such as launch vehicles
[NASA-CASE-XLA-02704] c11 N69-21540
SLIDING CONTACT
Electrical connector pin with wiping action to assure reliable contact
[NASA-CASE-XMF-04238] c09 N69-39734
Development of slip ring assembly with inner and outer peripheral surfaces used as electrical contacts for brushes
[NASA-CASE-XMF-01049] c15 N71-23049
SLIDING FRICTION
Bearing material --- composite material with low friction surface for rolling or sliding contact
[NASA-CASE-LEW-11930-1] c24 N76-22309
SLIP CASTING
Freeze casting of metal ceramic and refractory compound powders into plastic slips
[NASA-CASE-XLE-00106] c15 N71-16076
SLITS
Slit regulated gas journal bearing
[NASA-CASE-XNP-00476] c15 N70-38620
Method of fabricating an object with a thin wall having a precisely shaped slit
[NASA-CASE-LAR-10409-1] c31 N74-21059
SLOPES
Penetrometer --- for determining load bearing characteristics of inclined surfaces
[NASA-CASE-NPO-11103-1] c35 N77-27367
SLOT ANTENNAS
Planar array circularly polarized antenna with wall slot excitation
[NASA-CASE-NPO-10301] c07 N72-11148
Omnidirectional antenna array with circumferential slots for mounting on cylindrical space vehicle
[NASA-CASE-LAR-10163-1] c09 N72-25247
Circularly polarized antenna with linearly polarized pair of elements
[NASA-CASE-ERC-10214] c09 N72-31235
Turnstile slot antenna
[NASA-CASE-GSC-11428-1] c32 N74-20864
Horn antenna having V-shaped corrugated slots
[NASA-CASE-LAR-11112-1] c32 N76-15330
SLOTS
Belleville spring assembly with elastic guides having low hysteresis
[NASA-CASE-XNP-09452] c15 N69-27504
Direct lift control system having flaps with slots adjacent to their leading edge and particularly adapted for lightweight aircraft

[NASA-CASE-LAR-10249-1] c02 N71-26110
Slotted fine-adjustment support for optical devices
[NASA-CASE-MFS-20249] c15 N72-11386
SLURRY PROPELLANTS
Apparatus for producing hydrocarbon slurry containing small particles of magnesium for use as jet aircraft fuel
[NASA-CASE-XLE-00010] c15 N70-33382
SMOKE
Development of method for protecting large and oddly shaped areas from radiant and convective heat
[NASA-CASE-XNP-01310] c33 N71-28252
Smokestack mounted airfoil
[NASA-CASE-LAR-11669-1] c34 N76-13419
Stack plume visualization system
[NASA-CASE-LAR-11675-1] c45 N76-17656
Smoke generator
[NASA-CASE-ARC-10905-1] c37 N77-13418
SODIUM CHLORIDES
Composition of diffuse reflective coating containing sodium chloride in combination with diol solvent and organic wetting and drying agents
[NASA-CASE-GSC-11214-1] c06 N73-13128
A reverse osmosis membrane of high urea rejection properties
[NASA-CASE-ARC-10980-1] c27 N77-18265
SOFT LANDING
Non-reusable kinetic energy absorber for application in soft landing of space vehicles
[NASA-CASE-XLE-00810] c15 N70-34861
Spacecraft shock absorbing system for soft landings
[NASA-CASE-XMF-02108] c31 N70-36845
Payload soft landing system using stowable gas bag
[NASA-CASE-XLA-09881] c31 N71-16085
SOFT LANDING SPACECRAFT
Pivotal shock absorbing assembly for use as load distributing portion in landing gear systems of space vehicles
[NASA-CASE-XMF-03856] c31 N70-34159
SOIL MECHANICS
Penetrometer --- for determining load bearing characteristics of inclined surfaces
[NASA-CASE-NPO-11103-1] c35 N77-27367
SOIL SCIENCE
Auger-type soil penetrometer for burrowing into soil formations
[NASA-CASE-XNP-05530] c14 N73-32321
Remote sensing of vegetation and soil using microwave ellipsometry
[NASA-CASE-GSC-11976-1] c43 N76-23671
SOILS
Screen particle separator for soil samples
[NASA-CASE-XNP-09770-2] c15 N72-22483
Soil burrowing mole apparatus
[NASA-CASE-XNP-07169] c15 N73-32362
SOLAR ACTIVITY
Radiometric measuring system for solar activity and atmospheric attenuation and emission
[NASA-CASE-ERC-10276] c14 N73-26432
SOLAR ARRAYS
Deployable cantilever support for deploying solar cell arrays aboard spacecraft and reducing transient loading
[NASA-CASE-NPO-10883] c31 N72-22874
Electrical interconnection of unilluminated solar cells in solar battery array
[NASA-CASE-GSC-10344-1] c03 N72-27053
Development of solar energy powered heliotrope assembly to orient solar array toward sun
[NASA-CASE-GSC-10945-1] c21 N72-31637
Method of making silicon solar cell array --- and mounting on flexible substrate
[NASA-CASE-LEW-11069-1] c44 N74-14784
A non-tracking solar energy collector system
[NASA-CASE-NPO-13813-1] c44 N77-19579
A solar array strip and a method for forming the same
[NASA-CASE-NPO-13652-1] c44 N77-28585
Solar cell shingle
[NASA-CASE-LEW-12587-1] c44 N77-31601
SOLAR CELLS
Fabricating solar cells with dielectric layers to improve glass fusion
[NASA-CASE-XGS-04531] c03 N69-24267
Solar radiation direction detector and device for compensating degradation of photocells
[NASA-CASE-XLA-00183] c14 N70-40239
Attitude control system for spacecraft based on conversion of incident solar radiation on movable control surfaces into mechanical torques
[NASA-CASE-XNP-02982] c31 N70-41855
Simulating voltage-current characteristic curves of solar cell panel with different operational parameters
[NASA-CASE-XMS-01554] c10 N71-10578
Doping silicon material with gadolinium to increase radiation resistance of solar cells
[NASA-CASE-XLE-02792] c26 N71-10607
Modifying existing solar cells for temperature control
[NASA-CASE-NPO-10109] c03 N71-11049
Solar battery with interconnecting means for plural cells
[NASA-CASE-XNP-06506] c03 N71-11050
Fabrication methods for matrices of solar cell submodules
[NASA-CASE-XNP-05821] c03 N71-11056
Metal strip mounting arrangement for solar cell arrays on spacecraft
[NASA-CASE-XGS-01475] c03 N71-11058
Conductor for connecting parallel cells into submodules in series to form solar cell matrix
[NASA-CASE-NPO-10821] c03 N71-19545
Space erectable rollup solar array of arcuate solar panels furled on tapered drum for spacecraft storage during launch
[NASA-CASE-NPO-10188] c03 N71-20273
Electrode connection for n-on-p silicon solar cell
[NASA-CASE-XLE-04787] c03 N71-20492
Fabrication of solar cell banks for attaching solar cells to base members or substrates
[NASA-CASE-XNP-00826] c03 N71-20895
Gallium arsenide solar cell preparation by surface deposition of cuprous iodide on thin n-type polycrystalline layers and heating in iodine vapor
[NASA-CASE-XNP-01960] c09 N71-23027
Gadolinium or samarium doped-silicon semiconductor material with resistance to radiation damage for use in solar cells
[NASA-CASE-XLE-10715] c26 N71-23292
Maintaining current flow through solar cells with open connection using shunting diode
[NASA-CASE-XLE-04535] c03 N71-23354
Metal pattern bonding technique for cover glass attachment to silicon solar cells for space applications
[NASA-CASE-XLE-08569] c03 N71-23449
Addition of group 3 elements to silicon semiconductor material for increased resistance to radiation damage in solar cells
[NASA-CASE-XLE-02798] c26 N71-23654
Method of attaching cover glass to silicon solar cell without using adhesive
[NASA-CASE-XLE-08569-2] c03 N71-24681
Method and apparatus for fabricating solar cell panels
[NASA-CASE-XNP-03413] c03 N71-26726
Development and characteristics of solar cells with phosphors in cover glass to improve response to solar ultraviolet radiation
[NASA-CASE-ARC-10050] c03 N71-33409
Electrically coupled individually encapsulated solar cell matrix
[NASA-CASE-NPO-11190] c03 N71-34044
Recovering efficiency of solar cells damaged by environmental radiation through thermal annealing
[NASA-CASE-XGS-04047-2] c03 N72-11062
Spacecraft solar cell system with switching circuit to provide compensation for environmental changes
[NASA-CASE-GSC-10669-1] c03 N72-20031
Test method and equipment for identifying faulty cells or connections in solar cell assemblies
[NASA-CASE-NPO-10401] c03 N72-20033
Electrically connected matrix of discrete solar cell blanks
[NASA-CASE-NPO-10591] c03 N72-22041
Solar cell panel with light transmitting cover plate
[NASA-CASE-NPO-10747] c03 N72-22042

Development of process for constructing protective covers for solar cells
[NASA-CASE-GSC-11514-1] c03 N72-24037
Apparatus for applying thin glass slides to solar cells
[NASA-CASE-NPO-10575] c03 N72-25019
Electrical interconnection of unilluminated solar cells in solar battery array
[NASA-CASE-GSC-10344-1] c03 N72-27053
Rectangular solar cell stacked panels to generate electrical power aboard spacecraft
[NASA-CASE-NPO-11771] c03 N73-20040
Method of making silicon solar cell array --- and mounting on flexible substrate
[NASA-CASE-LEW-11069-1] c44 N74-14784
High voltage, high current Schottky barrier solar cell
[NASA-CASE-NPO-13482-1] c44 N74-30448
Covered silicon solar cells and method of manufacture --- with polymeric films
[NASA-CASE-LEW-11065-2] c44 N76-14600
Solar cell surface treatment
[NASA-CASE-LEW-11330-1] c44 N76-14612
Improved low cost substrates for polycrystalline solar cells --- for solar energy conversion
[NASA-CASE-GSC-12022-2] c44 N76-26695
Fabrication of polycrystalline solar cells on low-cost substrates
[NASA-CASE-GSC-12022-1] c44 N76-28635
Solar cell grid patterns
[NASA-CASE-NPO-13087-2] c44 N76-31666
Solar cell surface treatment
[NASA-CASE-LEW-11330-2] c44 N76-33624
Photovoltaic cell array
[NASA-CASE-MFS-22458-1] c44 N77-10635
Silicon nitride coated, plastic covered solar cell
[NASA-CASE-LEW-11496-1] c44 N77-14580
Encapsulated solar cell modules
[NASA-CASE-LEW-12185-1] c44 N77-15490
Improved backwall cell
[NASA-CASE-LEW-12236-1] c44 N77-17565
Solar cell assembly --- for use under high intensity illumination
[NASA-CASE-LEW-11549-1] c44 N77-19571
Method for producing solar energy panels by automation
[NASA-CASE-LEW-12541-1] c44 N77-22615
Application of semiconductor diffusants to solar cells by screen printing
[NASA-CASE-LEW-12775-1] c44 N77-24589
Horizontally mounted solar collector
[NASA-CASE-MFS-23349-1] c44 N77-30613

SOLAR COLLECTORS

Expanding and contracting connector strip for solar cell array of Nimbus satellite
[NASA-CASE-XGS-01395] c03 N69-21539
Concentrator device for controlling direction of solar energy onto energy converters
[NASA-CASE-XLE-01716] c09 N70-40234
Space erectable rollup solar array of arcuate solar panels furled on tapered drum for spacecraft storage during launch
[NASA-CASE-NPO-10188] c03 N71-20273
Storage stable, thermally activated foaming compositions for erecting and rigidizing mechanisms of thin sheet solar collectors
[NASA-CASE-LAR-10373-1] c18 N71-26155
Development and characteristics of solar cells with phosphors in cover glass to improve response to solar ultraviolet radiation
[NASA-CASE-ARC-10050] c03 N71-33409
Selective coating for solar panels --- energy policy
[NASA-CASE-LEW-12159-1] c44 N76-15603
Portable, linear-focused solar thermal energy collecting system
[NASA-CASE-NPO-13734-1] c44 N76-26690
Solar cell collector and method for producing same --- indium alloy coatings
[NASA-CASE-LEW-12552-1] c44 N77-17564
A non-tracking solar energy collector system
[NASA-CASE-NPO-13813-1] c44 N77-19579
Mount for continuously orienting a collector dish in a system adapted to perform both diurnal and seasonal solar tracking
[NASA-CASE-MFS-23267-1] c35 N77-20401
Solar energy collection system
[NASA-CASE-NPO-13579-2] c44 N77-20565
Low cost solar energy collection system
[NASA-CASE-NPO-13579-3] c44 N77-20566
Sun tracking solar energy collector
[NASA-CASE-NPO-13921-1] c44 N77-24590
Method for fabricating solar cells having integral collector grids
[NASA-CASE-LEW-12819-1] c44 N77-24593
A non-tracking solar energy collector system
[NASA-CASE-NPO-13817-1] c44 N77-28583
Solar cell shingle
[NASA-CASE-LEW-12587-1] c44 N77-31601
Aluminum or copper substrate panel for selective absorption of solar energy and the method of producing said panel
[NASA-CASE-MFS-23518-1] c44 N77-31610
Stainless steel panel for selective absorption of solar energy and the method of producing said panel
[NASA-CASE-MFS-23518-2] c44 N77-31611
Solar energy collection system
[NASA-CASE-NPO-13810-1] c44 N77-32582
Three-dimensional tracking solar energy concentrator and method for making same
[NASA-CASE-NPO-13736-1] c44 N77-32583

SOLAR ENERGY

Rectangular solar cell stacked panels to generate electrical power aboard spacecraft
[NASA-CASE-NPO-11771] c03 N73-20040
Solar energy power system --- using Freon
[NASA-CASE-MFS-21628-1] c44 N75-32581
Thermostatically controlled non-tracking type solar energy concentrator
[NASA-CASE-NPO-13497-1] c44 N76-14602
Method for producing solar energy panels by automation
[NASA-CASE-LEW-12541-1] c44 N77-22615
Aluminum or copper substrate panel for selective absorption of solar energy and the method of producing said panel
[NASA-CASE-MFS-23518-1] c44 N77-31610
Solar photolysis of water
[NASA-CASE-NPO-13675-1] c44 N77-32580
Three-dimensional tracking solar energy concentrator and method for making same
[NASA-CASE-NPO-13736-1] c44 N77-32583

SOLAR ENERGY ABSORBERS

Low cost solar energy collection system
[NASA-CASE-NPO-13579-1] c44 N75-28519
Panel for selectively absorbing solar thermal energy and the method of producing said panel
[NASA-CASE-MFS-22562-1] c44 N76-14595
Solar energy absorber
[NASA-CASE-MFS-22743-1] c44 N76-22657
Solar energy trap
[NASA-CASE-MFS-22744-1] c44 N76-24696
A non-tracking solar energy collector system
[NASA-CASE-NPO-13813-1] c44 N77-19579
Solar cell shingle
[NASA-CASE-LEW-12587-1] c44 N77-31601
Stainless steel panel for selective absorption of solar energy and the method of producing said panel
[NASA-CASE-MFS-23518-2] c44 N77-31611

SOLAR ENERGY CONVERSION

Solar energy power system
[NASA-CASE-MFS-21628-2] c44 N76-23675
Improved low cost substrates for polycrystalline solar cells --- for solar energy conversion
[NASA-CASE-GSC-12022-2] c44 N76-26695
Improved backwall cell
[NASA-CASE-LEW-12236-1] c44 N77-17565
Horizontally mounted solar collector
[NASA-CASE-MFS-23349-1] c44 N77-30613

SOLAR FURNACES

Lens assembly for solar furnace or solar simulator
[NASA-CASE-XNP-04111] c14 N71-15622

SOLAR GENERATORS

Describing method for vapor deposition of gallium arsenide films to manganese substrates to provide semiconductor devices with low resistance substrates
[NASA-CASE-XNP-01328] c26 N71-18064

SOLAR GRAVITATION

Table structure and rotating magnet system simulating gravitational forces on spacecraft and displaying trajectories between Earth, Venus, and Mercury
[NASA-CASE-XNP-00708] c14 N70-35394

SOLAR HEATING
Improved solar heating system
[NASA-CASE-LAR-12009-1] c44 N76-32649
SOLAR OBSERVATORIES
Light sensitive control system for automatically opening and closing dome of solar optical telescope
[NASA-CASE-MSC-10966] c14 N71-19568
SOLAR PONDS (HEAT STORAGE)
Solar pond
[NASA-CASE-NPO-13581-2] c44 N77-28584
SOLAR POSITION
Sun angle calculator
[NASA-CASE-MSC-12617-1] c35 N76-29552
SOLAR RADIATION
Space simulator with uniform test region radiation distribution, adapted to simulate Venus solar radiations
[NASA-CASE-XNP-00459] c11 N70-38675
Design and characteristics of device for sensing solar radiation and providing spacecraft attitude control to maintain direction with respect to incident radiation
[NASA-CASE-XNP-05535] c14 N71-23040
Utilization of solar radiation by solar still for converting salt and brackish water into potable water
[NASA-CASE-XMS-04533] c15 N71-23086
Wide angle sun sensor --- consisting of cylinder, insulation and pair of detectors
[NASA-CASE-NPO-13327-1] c35 N75-23910
Particulate and solar radiation stable coating for spacecraft
[NASA-CASE-LAR-10805-2] c34 N77-18382
SOLAR RADIO EMISSION
System generating sidereal frequency signals from signals of standard solar frequency without use of mixing operations or feedback loops
[NASA-CASE-XGS-02610] c14 N71-23174
SOLAR REFLECTORS
Foldable, double cone and parabolic reflector system for solar ray concentration
[NASA-CASE-XLA-04622] c03 N70-41580
Modifying existing solar cells for temperature control
[NASA-CASE-NPO-10109] c03 N71-11049
Fabrication of curved reflector segments for solar mirror
[NASA-CASE-XLE-08917] c15 N71-15597
Thermal pump-compressor for converting solar energy
[NASA-CASE-XLA-00377] c33 N71-17610
Forming mold for polishing and machining curved solar magnesium reflector with reinforcing ribs
[NASA-CASE-XLE-08917-2] c15 N71-24836
Inorganic thermal control and solar reflector coatings
[NASA-CASE-MFS-20011] c18 N72-22566
Low cost solar energy collection system
[NASA-CASE-NPO-13579-1] c44 N75-28519
Solar energy collection system
[NASA-CASE-NPO-13579-2] c44 N77-20565
Low cost solar energy collection system
[NASA-CASE-NPO-13579-3] c44 N77-20566
Lightweight reflector assembly
[NASA-CASE-NPO-13707-1] c74 N77-28933
SOLAR SAILS
Strong thin membrane structure
[NASA-CASE-NPO-14021-1] c27 N77-32313
SOLAR SENSORS
Sensor consisting of photocells mounted on pyramidical base for improved pointing accuracy of planetary trackers
[NASA-CASE-XNP-04180] c07 N69-39736
Spacecraft attitude control system using solar and earth sensors, gyroscopes, and jet actuators
[NASA-CASE-XNP-00465] c21 N70-35395
Sun tracker with rotatable plane-parallel plate and two photocells
[NASA-CASE-XGS-01159] c21 N71-10678
Solar sensor with coarse and fine sensing elements for matching preirradiated cells on degradation rates
[NASA-CASE-XLA-01584] c14 N71-23269
Sun direction detection system
[NASA-CASE-NPO-13722-1] c74 N77-22951
Sun tracking solar energy collector
[NASA-CASE-NPO-13921-1] c44 N77-24590
SOLAR SIMULATORS
Lens assembly for solar furnace or solar simulator
[NASA-CASE-XNP-04111] c14 N71-15622
High powered arc electrodes --- producing solar simulator radiation
[NASA-CASE-LEW-11162-1] c33 N74-12913
SOLDERED JOINTS
Soldering device particularly suited to making high quality wiring joints for aerospace engineering utilizing capillary attraction to regulate flow of solder
[NASA-CASE-XLA-08911] c15 N71-27214
SOLDERING
Hydrazine monoperfluoro alkanoate solder flux leaving corrosion resistant coating, for metals such as copper
[NASA-CASE-XNP-03459-2] c18 N71-15688
Metal soldering with hydrazine monoperfluoro alkanoate for corrosion resistant coatings
[NASA-CASE-XNP-03459] c15 N71-21078
Method of plating copper on aluminum to permit conventional soldering of structural aluminum bodies
[NASA-CASE-XLA-08966-1] c17 N71-25903
Device for resistance soldering electrical leads to solder cups of multiple terminal block
[NASA-CASE-GSC-10913] c15 N72-22491
Development of electrical system for indicating optimum contact between electrode and metal surface to permit improved soldering operation
[NASA-CASE-KSC-10242] c15 N72-23497
SOLDERS
Solder coating process for printed copper circuit protection
[NASA-CASE-XMF-01599] c09 N71-20705
Method for attaching a fused-quartz mirror to a conductive metal substrate
[NASA-CASE-MFS-23405-1] c26 N77-29260
SOLENOID VALVES
Solenoid two-step valve for bipropellant flow rate control to rocket engine
[NASA-CASE-XMS-04890-1] c15 N70-22192
Automatic recording McLeod gage with three electrodes and solenoid valve connection
[NASA-CASE-XLE-03280] c14 N71-23093
Solenoid valve including guide for armature and valve member
[NASA-CASE-GSC-10607-1] c15 N72-20442
Remote fire stack igniter --- with solenoid-controlled valve
[NASA-CASE-MFS-21675-1] c25 N74-33378
Automatically operable self-leveling load table
[NASA-CASE-MFS-22039-1] c09 N75-12968
SOLENOIDS
Water cooled solenoid capable of producing magnetic field intensities up to 100 kilogauss
[NASA-CASE-XNP-01951] c09 N70-41929
Automatic power supply circuit design for driving inductive loads and minimizing power consumption including solenoid example
[NASA-CASE-NPO-10716] c09 N71-24892
Rotary solenoid shutter drive assembly and rotary inertia damper and stop plate assembly --- for use with cameras mounted in satellites
[NASA-CASE-GSC-11560-1] c33 N74-20861
Sprag solenoid brake --- development and operations of electrically controlled brake
[NASA-CASE-MFS-21846-1] c37 N74-26976
SOLID LUBRICANTS
Bonded solid lubricant coatings of calcium fluoride and binder for high temperature stability
[NASA-CASE-XMS-00259] c18 N70-36400
Solid lubricant applied to porous roller bearings prior to use in ultrahigh vacuum
[NASA-CASE-XLE-09527] c15 N71-17688
Preparation of inorganic solid film lubricants with long wear life and stability in aerospace environments
[NASA-CASE-XMF-03988] c15 N71-21403
Development of rolling element bearing for operation in ultrahigh vacuum environment
[NASA-CASE-XLE-09527-2] c15 N71-26189
SOLID PROPELLANT IGNITION
Solid propellant ignition with hypergolic fluid injected to predetermined portions of propellant
[NASA-CASE-XLE-00207] c28 N70-33375
Method for igniting solid propellant rocket motors by injecting hypergolic fluids

[NASA-CASE-XLE-01988] c27 N71-15634
SOLID PROPELLANT ROCKET ENGINES
Spherical solid propellant rocket engine design
[NASA-CASE-XLA-00105] c28 N70-33331
Mandrel for shaping solid propellant rocket fuel into engine casing
[NASA-CASE-XLA-00304] c27 N70-34783
Spherical solid propellant rocket engine having abrupt burnout
[NASA-CASE-XHQ-01897] c28 N70-35381
Grain configuration for solid propellant rocket engines
[NASA-CASE-XGS-03556] c27 N70-35534
Solid propellant rocket vehicle thrust control method and apparatus
[NASA-CASE-XNP-00217] c28 N70-38181
Steerable solid propellant rocket motor adapted to effect payload orientation as multistage rocket stage or reduce velocity as retrorocket
[NASA-CASE-XNP-00234] c28 N70-38645
Method of making solid propellant rocket motor having reliable high altitude capabilities, long shelf life, and capable of firing with nozzle closure with foamed plastic permanent mandrel
[NASA-CASE-XLA-04126] c28 N71-26779
Electrical failure detector in solid rocket propellant motor insulation against thermal degradation by fuel grain
[NASA-CASE-XMF-03968] c14 N71-27186
Solid propellant rocket engine with venting system to control effective nozzle throat area
[NASA-CASE-XNP-03282] c28 N72-20758
Thin walled nozzle with insulative nonablative coating for solid propellant rocket engines
[NASA-CASE-NPO-11458] c28 N72-23810
Characteristics of solid propellant rocket engine with controlled rate of thrust buildup operating in vacuum environment
[NASA-CASE-NPO-11559] c28 N73-24784
Space vehicle
[NASA-CASE-MFS-22734-1] c18 N75-19329
Solid propellant rocket motor and method of making same
[NASA-CASE-XLA-1349] c20 N77-17143
SOLID PROPELLANTS
Variable thrust ion engine using thermal decomposition of solid cesium compound to produce propulsive vapor
[NASA-CASE-XMF-00923] c28 N70-36802
Photographic method for measuring viscoelastic strain in solid propellants and other materials
[NASA-CASE-XNP-01153] c32 N71-17645
Ethylene oxide sterilization and encapsulating process for sterile preservation of instruments and solid propellants
[NASA-CASE-XNP-05763] c14 N71-20461
Chemical process for production of polyisobutylene compounds and application as solid rocket propellant binder
[NASA-CASE-NPO-10893] c27 N73-22710
SOLID ROCKET BINDERS
Liner for hybrid solid propellants to bind propellant to rocket motor case
[NASA-CASE-XNP-09744] c27 N71-16392
SOLID ROCKET PROPELLANTS
Using ethylene oxide in preparation of sterilized solid rocket propellants and encapsulating materials
[NASA-CASE-XNP-01749] c27 N70-41897
Pressurized gas injection for burning rate control of solid propellants
[NASA-CASE-XLE-03494] c27 N71-21819
Solid propellant stabilizer containing nitroguanidine
[NASA-CASE-NPO-12000] c27 N72-25699
Solid propellant containing hydrazinium nitroformate oxidizer and polymeric hydrocarbon binder
[NASA-CASE-NPO-12015] c27 N73-16764
Preparing oxidizer coated metal fuel particles
[NASA-CASE-NPO-11975-1] c28 N74-33209
Casting propellant in rocket engine
[NASA-CASE-LAR-11995-1] c28 N77-10213
Solid propellant rocket motor and method of making same
[NASA-CASE-XLA-1349] c20 N77-17143
SOLID STATE
Solid state chemical source for ammonia beam masers
[NASA-CASE-XGS-01504] c16 N70-41578
SOLID STATE DEVICES
Solid state switching circuit design to increase current capacity of low rated relay contacts
[NASA-CASE-XNP-09228] c09 N69-27500
Temperature compensated solid state differential amplifier with application in bioinstrumentation circuits
[NASA-CASE-XAC-00435] c09 N70-35440
Solid state device for mapping flux and power in nuclear reactor cores
[NASA-CASE-XLE-00301] c14 N70-36808
Solid state operational integrator
[NASA-CASE-NPO-10230] c09 N71-12520
Microwave power receiving antenna solving heat dissipation problems by construction of elements as heat pipe devices
[NASA-CASE-MFS-20333] c09 N71-13486
Computer circuit performing both counting and shifting logic operations also capable of miniaturization and integration in basic circuits
[NASA-CASE-XNP-01753] c08 N71-22897
Solid state television camera system consisting of monolithic semiconductor mosaic sensor and molecular digital readout systems
[NASA-CASE-XMF-06092] c07 N71-24612
Solid state circuit for switching alternating current input signal as function of direct current gating transistor
[NASA-CASE-XNP-06505] c10 N71-24799
Solid state force measuring electromechanical transducers made of piezoresistive materials
[NASA-CASE-ERC-10088] c26 N71-25490
Development and characteristics of solid state acoustic variable time delay line using direct current voltage and radio frequency pulses
[NASA-CASE-ERC-10032] c10 N71-25900
Solid state broadband stable power amplifier
[NASA-CASE-XNP-10854] c10 N71-26331
Solid state remote circuit selector switching circuit
[NASA-CASE-LEW-10387] c09 N72-22201
Radio frequency controlled solid state switch
[NASA-CASE-ARC-10136-1] c09 N72-22202
Development of thermal to electric power conversion system using solid state switches of electrical currents to load for Seebeck effect compensation
[NASA-CASE-NPO-11388] c03 N72-23048
Solid state switch for variable circuit switching
[NASA-CASE-NPO-10817-1] c08 N73-30135
Full wave modulator-demodulator amplifier apparatus --- for generating rectified output signal
[NASA-CASE-FRC-10072-1] c33 N74-14939
Traveling wave solid state amplifier utilizing a semiconductor with negative differential mobility
[NASA-CASE-HQN-10069] c33 N75-27251
Dual mode solid state power switch
[NASA-CASE-MFS-22880-1] c33 N76-31410
Solid-state current transformer
[NASA-CASE-MFS-22560-1] c33 N77-14335
SOLID SURFACES
Dye penetrant and technique for nondestructive tests of solid surfaces contacted by liquid oxygen
[NASA-CASE-XMF-02221] c18 N71-27170
SOLUBILITY
Fireproof potassium silicate coating composition, insoluble in water after application
[NASA-CASE-GSC-10072] c18 N71-14014
SOLUTES
Specific wavelength colorimeter --- for measuring given solute concentration in test sample
[NASA-CASE-MSC-14081-1] c35 N74-27860
SONIC BOOMS
Instrumentation for measurement of aircraft noise and sonic boom
[NASA-CASE-LAR-11173-1] c35 N75-19614
Instrumentation for measuring aircraft noise and sonic boom
[NASA-CASE-LAR-11476-1] c07 N76-27232
SORBATES
Apparatus for measuring a sorbate dispersed in a

fluid stream
[NASA-CASE-ARC-10896-1] c34 N75-32389
SORET COEFFICIENT
Method of growing composites of the type exhibiting the Soret effect --- improved structure of eutectic alloy crystals
[NASA-CASE-MFS-22926-1] c24 N77-27187
SOUND GENERATORS
Ejectable underwater sound source recovery assembly
[NASA-CASE-LAR-10595-1] c35 N74-16135
SOUND PRESSURE
Instrumentation for measurement of aircraft noise and sonic boom
[NASA-CASE-LAR-11173-1] c35 N75-19614
Differential sound level meter
[NASA-CASE-LAR-12106-1] c35 N77-23441
SOUND TRANSDUCERS
Method and transducer device for detecting presence of hydrogen gas
[NASA-CASE-XMF-03873] c06 N69-39733
Sensor for detecting and measuring energy, velocity and direction of travel of a cosmic dust particle
[NASA-CASE-GSC-10503-1] c14 N72-20381
SOUND WAVES
Piezoelectric transducer for monitoring sound waves of physiological origin
[NASA-CASE-XMS-05365] c14 N71-22993
Material suspension within an acoustically excited resonant chamber --- at near weightless conditions
[NASA-CASE-NPO-13263-1] c12 N75-24774
Acoustic energy shaping
[NASA-CASE-NPO-13802-1] c71 N76-18886
Acoustically swept rotor
[NASA-CASE-ARC-11106-1] c05 N77-31130
SOUNDING ROCKETS
Development of attitude control system for sounding rocket stabilization during ballistic phase of flight
[NASA-CASE-XGS-01654] c31 N71-24750
System for deploying and ejecting releasable clamshell fairing sections from spinning sounding rockets
[NASA-CASE-GSC-10590-1] c31 N73-14853
SPACE CAPSULES
Assembly for opening flight capsule stabilizing and decelerating flaps with reference to capsule recovery
[NASA-CASE-XMF-00641] c31 N70-36410
Design and configuration of manned space capsule
[NASA-CASE-XLA-01332] c31 N71-15664
Describing assembly for opening stabilizing and decelerating flaps of flight capsules used in space research
[NASA-CASE-XMF-03169] c31 N71-15675
SPACE COMMUNICATION
Radio receiver with array of independently steerable antennas for deep space communication
[NASA-CASE-XLA-00901] c07 N71-10775
Design and development of tracking receiver for tracking satellites and receiving radio signal transmissions under adverse noise conditions
[NASA-CASE-XGS-08679] c10 N71-21473
Development of antenna system for spin stabilized communication satellite for simultaneous reception and transmission of data
[NASA-CASE-XGS-02607] c31 N71-23009
Space communication system for compressed data with a concatenated Reed-Solomon-Viterbi coding channel
[NASA-CASE-NPO-13545-1] c32 N77-12240
Redundant RF system for space applications
[NASA-CASE-NPO-13955-1] c32 N77-28358
SPACE ENVIRONMENT SIMULATION
Simulating voltage-current characteristic curves of solar cell panel with different operational parameters
[NASA-CASE-XMS-01554] c10 N71-10578
Method and feed system for separating and orienting liquid and vapor phases of liquid propellants in zero gravity environment
[NASA-CASE-XLE-01182] c27 N71-15635
Cable suspension and inclined walkway system for simulating reduced or zero gravity environments
[NASA-CASE-XLA-01787] c11 N71-16028
Space environment simulation system for measuring spacecraft electric field strength in plasma sheath
[NASA-CASE-XLE-02038] c09 N71-16086
Optical characteristics measuring apparatus
[NASA-CASE-XNP-08840] c23 N71-16365
Omnidirectional anisotropic molecular trap, used with vacuum pump to simulate space environments for testing spacecraft components
[NASA-CASE-XGS-00783] c30 N71-17788
Space environmental work simulator with portions of space suit mounted to vacuum chamber wall
[NASA-CASE-XMF-07488] c11 N71-18773
Low and zero gravity simulator for astronaut training
[NASA-CASE-MFS-10555] c11 N71-19494
Self lubricating fluoride-metal composite materials for outer space applications
[NASA-CASE-XLE-08511] c18 N71-23710
Test chamber for determining decomposition and autoignition of materials used in spacecraft under controlled environmental conditions
[NASA-CASE-KSC-10198] c11 N71-28629
Illumination system design for use as sunlight simulator in space environment simulators with multiple light sources reflected to single virtual source
[NASA-CASE-HQN-10781] c23 N71-30292
Pressure regulator for space suit worn underwater to simulate space environment for testing and experimentation
[NASA-CASE-MFS-20332] c05 N72-20097
SPACE ERECTABLE STRUCTURES
Self-erectable space structures of flexible foam for application in planetary orbits
[NASA-CASE-XLA-00686] c31 N70-34135
Manned space station collapsible for launching and self-erectable in orbit
[NASA-CASE-XLA-00678] c31 N70-34296
Manned space station launched in packaged condition and self erecting in orbit
[NASA-CASE-XLA-00258] c31 N70-38676
Collapsible, space erectable loop antenna system for space vehicle
[NASA-CASE-XMF-00437] c07 N70-40202
Erectable, inflatable, radio signal reflecting passive communication satellite
[NASA-CASE-XLA-00210] c30 N70-40309
Deployment system for flexible wing with rigid superstructure
[NASA-CASE-XLA-01220] c02 N70-41863
Capillary radiator for carrying heat transfer liquid in planetary spacecraft structures
[NASA-CASE-XLE-03307] c33 N71-14035
Describing apparatus for manufacturing operations in low and zero gravity environments of orbital space flight
[NASA-CASE-MFS-20410] c15 N71-19214
Space erectable rollup solar array of arcuate solar panels furled on tapered drum for spacecraft storage during launch
[NASA-CASE-NPO-10188] c03 N71-20273
Self erecting parabolic reflector design for use in space
[NASA-CASE-XMS-03454] c09 N71-20658
Pneumatic cantilever beams and platform for space erectable structure
[NASA-CASE-XLA-01731] c32 N71-21045
Hydraulic actuator design for space deployment of heat radiators
[NASA-CASE-MSC-11817-1] c15 N71-26611
Space expandable tether device for use as passageway between two docked spacecraft
[NASA-CASE-XMS-10993] c15 N71-28936
Expandable space frames with high expansion to collapse ratio
[NASA-CASE-ERC-10365-1] c31 N73-32749
Apparatus for assembling space structure
[NASA-CASE-MFS-23579-1] c12 N77-31213
SPACE EXPLORATION
Self-propelled vehicle with wheel, track laying, and walking capability for exploratory expolaration
[NASA-CASE-NPO-11366] c11 N73-26238
SPACE FLIGHT
Portable environmental control and life support system for astronaut in and out of spacecraft
[NASA-CASE-XMS-09632-1] c05 N71-11203
Television simulation for aircraft and space flight
[NASA-CASE-XFR-03107] c09 N71-19449

SPACE MAINTENANCE
System for removing and repairing spacecraft control thrusters by use of portable air locks
[NASA-CASE-MFS-20325] c28 N71-27095
SPACE MANUFACTURING
Material suspension within an acoustically excited resonant chamber --- at near weightless conditions
[NASA-CASE-NPO-13263-1] c12 N75-24774
Method for manufacturing mirrors in zero gravity environment
[NASA-CASE-MSC-12611-1] c12 N76-15189
SPACE MISSIONS
Planetary atmospheric investigation using split trajectory dual flyby mode
[NASA-CASE-XAC-08494] c30 N71-15990
Elimination of tracking occultation problems occurring during continuous monitoring of interplanetary missions by using Earth orbiting communications satellite
[NASA-CASE-XAC-06029-1] c31 N71-24813
Design and development of space shuttle system for delivering payload to earth orbit or celestial orbit
[NASA-CASE-MSC-12391] c30 N73-12884
SPACE NAVIGATION
Electrical and electromechanical trigonometric computation assembly and space vehicle guidance system for aligning perpendicular axes of two sets of three-axes coordinate references
[NASA-CASE-XMF-00684] c21 N71-21688
Momentum wheel design for spacecraft attitude control and magnetic drum and head system for data storage
[NASA-CASE-NPO-11481] c21 N73-13644
Method for producing reticles for use in outer space
[NASA-CASE-GSC-11188-2] c21 N73-19630
SPACE ORIENTATION
Sensing method and device for determining orientation of space vehicle or satellite by using particle traps
[NASA-CASE-XGS-00466] c21 N70-34297
SPACE RENDEZVOUS
Method and apparatus for connecting two spacecraft with probe of one inserted in rocket ergine nozzle of other spacecraft
[NASA-CASE-MFS-11133] c31 N71-16222
SPACE SHUTTLE ORBITERS
Thermal insulation attaching means
[NASA-CASE-MSC-12619-1] c39 N75-21671
Variable dihedral shuttle orbiter
[NASA-CASE-LAR-10706-2] c05 N77-31132
SPACE SHUTTLES
Designing spacecraft for flight into space, atmospheric reentry, and landing at selected sites
[NASA-CASE-XAC-02058] c02 N71-16087
Design and development of space shuttle system for delivering payload to earth orbit or celestial orbit
[NASA-CASE-MSC-12391] c30 N73-12884
Spacecraft configurations and aerodynamic characteristics of space shuttle systems with two reusable stages
[NASA-CASE-MSC-12433] c31 N73-14854
Variable ratio mixed-mode bilateral master-slave control system for shuttle remote manipulator system
[NASA-CASE-MSC-14245-1] c18 N75-27041
Fused silicide coatings containing discrete particles for protecting niobium alloys --- used in space shuttle thermal protection systems and turbine engine components
[NASA-CASE-LEW-11179-1] c27 N76-16229
SPACE SIMULATORS
Space simulator with uniform test region radiation distribution, adapted to simulate Venus solar radiations
[NASA-CASE-XNP-00459] c11 N70-38675
Variable geometry manned orbital vehicle having high aerodynamic efficiency over wide speed range and incorporating auxiliary pivotal wings
[NASA-CASE-XLA-03691] c31 N71-15674
Development of method and equipment for testing heat radiative properties of material under controlled environmental conditions
[NASA-CASE-MFS-20096] c14 N71-30026
SPACE STATIONS
Manned space station launched in packaged condition and self erecting in orbit
[NASA-CASE-XLA-00258] c31 N70-38676
Meteoroid impact position locator aid for manned space station
[NASA-CASE-LAR-10629-1] c35 N75-33367
Multiple in-line docking capability for rotating space stations
[NASA-CASE-MFS-20855-1] c15 N77-10112
SPACE SUITS
Astronaut restraint suit for high acceleration protection
[NASA-CASE-XAC-00405] c05 N70-41819
Space suit with pressure-volume compensator system
[NASA-CASE-XLA-05332] c05 N71-11194
Equipotential space suits utilizing mechanical aids to minimize astronaut energy at bending joints
[NASA-CASE-LAR-10007-1] c05 N71-11195
One piece human garment for use as contamination proof garment
[NASA-CASE-MSC-12206-1] c05 N71-17599
Space environmental work simulator with portions of space suit mounted to vacuum chamber wall
[NASA-CASE-XMF-07488] c11 N71-18773
Space suit body heat exchanger design composed of thermal conductance yarn and liquid coolant loops
[NASA-CASE-XMS-09571] c05 N71-19439
Space suit using nonflexible material with low leakage and providing protection against thermal extremes, physical punctures, and radiation with high mobility articulation
[NASA-CASE-XAC-07043] c05 N71-23161
Sealing evacuation port and evacuating vacuum container such as space jackets
[NASA-CASE-XMF-03290] c15 N71-23256
Structure of fabric layers for micrometeoroid protection garment with capability for eliminating heat shorts for use in manufacturing space suits
[NASA-CASE-MSC-12109] c18 N71-26285
Venting device for pressurized space suit helmet to eliminate vomit expelled by crewmen
[NASA-CASE-XMS-09652-1] c05 N71-26333
Automatic control device for regulating inlet water temperature of liquid cooled spacesuit
[NASA-CASE-MSC-13917-1] c05 N72-15098
Pressure regulator for space suit worn underwater to simulate space environment for testing and experimentation
[NASA-CASE-MFS-20332] c05 N72-20097
Space suit with improved waist and torso movement
[NASA-CASE-ARC-10275-1] c05 N72-22092
Underwater space suit pressure control regulator
[NASA-CASE-MFS-20332-2] c05 N73-25125
Automatic temperature control for liquid cooled space suit
[NASA-CASE-ARC-10599-1] c05 N73-26071
Intra- and extravehicular life support space suits for Apollo astronauts
[NASA-CASE-MSC-12609-1] c05 N73-32012
Non-flammable elastomeric fiber from a fluorinated elastomer and containing an halogenated flame retardant
[NASA-CASE-MSC-14331-1] c27 N76-24405
An improved cooling system for removing metabolic heat from an hermetically sealed spacesuit
[NASA-CASE-ARC-11059-1] c54 N77-14743
Spacesuit mobility joints
[NASA-CASE-ARC-11058-1] c54 N77-15641
Spacesuit torso closure
[NASA-CASE-ARC-11100-1] c54 N77-25784
SPACE VEHICLE CHECKOUT PROGRAM
Hydraulic support apparatus for dynamic testing of space vehicles under near-free flight conditions
[NASA-CASE-XMF-03248] c11 N71-10604
Digital computer system for automatic prelaunch checkout of spacecraft
[NASA-CASE-XKS-08012-2] c31 N71-15566
Developing high pressure gas purification and filtration system for use in test operations of space vehicles
[NASA-CASE-MFS-12806] c14 N71-17588
SPACEBORNE PHOTOGRAPHY
Camera arrangement for -- for satellite scanning of

earth or sky
[NASA-CASE-GSC-12032-2] c35 N76-19408
SPACECRAFT
Metal strip mounting arrangement for solar cell arrays on spacecraft
[NASA-CASE-XGS-01475] c03 N71-11058
Attitude sensor with scanning mirrors for detecting orientation of space vehicle with respect to planet
[NASA-CASE-XLA-00793] c21 N71-22880
Negation of magnetic fields produced by thin waferlike circuit elements in space vehicles
[NASA-CASE-XGS-03390] c03 N71-23187
Low mass ionizing device for use in electric thrust spacecraft engines
[NASA-CASE-XNP-01954] c28 N71-28850
Vacuum chamber with scale model of rocket engine base area of space vehicle
[NASA-CASE-MFS-20620] c11 N72-27262
SPACECRAFT ANTENNAS
Low loss parasitic probe antenna for prelaunch tests of spacecraft antennas
[NASA-CASE-XKS-09348] c09 N71-13521
Millimeter wave antenna system for spacecraft use
[NASA-CASE-GSC-10949-1] c07 N71-28965
Low weight, integrated thermoelectric generator/antenna combination for spacecraft
[NASA-CASE-XER-09521] c09 N72-12136
Omnidirectional antenna array with circumferential slots for mounting on cylindrical space vehicle
[NASA-CASE-LAR-10163-1] c09 N72-25247
Furlable antenna for spacecraft
[NASA-CASE-NPO-11361] c07 N72-32169
Collapsible support for antenna reflector applied to installation of spacecraft antennas
[NASA-CASE-NPO-11751] c07 N73-24176
SPACECRAFT CABIN ATMOSPHERES
Thermal control wall panel with application to spacecraft cabins
[NASA-CASE-XLA-01243] c33 N71-22792
Nonflammable coating compositions --- for use in high oxygen environments
[NASA-CASE-MFS-20486-2] c27 N74-17283
Regenerable device for scrubbing breathable air of CO2 and moisture without special heat exchanger equipment
[NASA-CASE-MSC-14771-1] c54 N77-32722
SPACECRAFT COMMUNICATION
Synchronizing apparatus for multi-access satellite time division multiplex system
[NASA-CASE-XGS-05918] c07 N69-39974
Phase shift data transmission system with pseudo-noise synchronization code modulated with digital data into single channel for spacecraft communication
[NASA-CASE-XNP-00911] c08 N70-41961
Design and development of tracking receiver for tracking satellites and receiving radio signal transmissions under adverse noise conditions
[NASA-CASE-XGS-08679] c10 N71-21473
Microwave omnidirectional antenna for use on spacecraft
[NASA-CASE-XLA-03114] c09 N71-22888
VHF/UHF parasitic probe antenna for spacecraft communication
[NASA-CASE-XKS-09340] c07 N71-24614
System designed to reduce time required for obtaining synchronization in data communication with spacecraft utilizing pseudonoise codes
[NASA-CASE-NPO-10214] c10 N71-26577
Turnstile slot antenna
[NASA-CASE-GSC-11428-1] c32 N74-20864
Switchable beamwidth monopulse method and system
[NASA-CASE-GSC-11924-1] c33 N76-27472
SPACECRAFT COMPONENTS
Rectangular electric conductors for conductor cables to withstand spacecraft vibration and controlled atmosphere
[NASA-CASE-MFS-14741] c09 N70-20737
Vibration damping system operating in low vacuum environment for spacecraft mechanisms
[NASA-CASE-XMS-01620] c23 N71-15673
Intermittent type silica gel adsorption refrigerator for providing temperature control for spacecraft components
[NASA-CASE-XNP-00920] c15 N71-15906
Omnidirectional anisotropic molecular trap, used with vacuum pump to simulate space environments for testing spacecraft components
[NASA-CASE-XGS-00783] c30 N71-17788
Spacecraft air lock system to provide ingress and egress of astronaut without subjecting vehicular environment to vacuum of space
[NASA-CASE-XLA-02050] c31 N71-22968
Development and characteristics of docking structure and apparatus for spacecraft docking
[NASA-CASE-XNP-05941] c31 N71-23912
Design and development of release mechanism for spacecraft components, releasable despin weights, and extensible gravity booms
[NASA-CASE-XGS-08718] c15 N71-24600
Space environment simulator for testing spacecraft components under aerospace conditions
[NASA-CASE-NPO-10141] c11 N71-24964
Design and development of spacecraft with outer shell structure heat shielding and built-in, removable excursion module
[NASA-CASE-MSC-13047-1] c31 N71-25434
Electronic detection system for peak acceleration limits in vibrational testing of spacecraft components
[NASA-CASE-NPO-10556] c14 N71-27185
Development of solid state polymer coating for obtaining thermal balance in spacecraft components
[NASA-CASE-XLA-01745] c33 N71-28903
Development of apparatus for mounting scientific experiments in spacecraft to permit utilization without maneuvering spacecraft
[NASA-CASE-MSC-12372-1] c31 N72-25842
Airlock
[NASA-CASE-MFS-20922-1] c18 N74-22136
Thrust-isolating mounting --- characteristics of support for loads mounted in spacecraft
[NASA-CASE-MFS-21680-1] c18 N74-27397
Variable ratio mixed-mode bilateral master-slave control system for shuttle remote manipulator system
[NASA-CASE-MSC-14245-1] c18 N75-27041
SPACECRAFT CONFIGURATIONS
Inflatable honeycomb panel element for lightweight structures usable in space stations and other construction
[NASA-CASE-XLA-00204] c32 N70-36536
Lenticular vehicle with foldable aerodynamic control flaps and reaction jets for operation above and within earth's atmosphere
[NASA-CASE-XGS-00260] c31 N70-37924
Stage separation system for spinning vehicles and paylcads
[NASA-CASE-XLA-02132] c31 N71-10582
Spacecraft configurations and aerodynamic characteristics of space shuttle systems with two reusable stages
[NASA-CASE-MSC-12433] c31 N73-14854
Space vehicle
[NASA-CASE-MFS-22734-1] c18 N75-19329
Variable dihedral shuttle orbiter
[NASA-CASE-LAR-10706-2] c05 N77-31132
SPACECRAFT CONSTRUCTION MATERIALS
Pressurized cell micrometeoroid detector
[NASA-CASE-XLA-00936] c14 N71-14996
Flexible barrier membrane comprising porous substrate and incorporating liquid gallium or indium metal used as sealant barriers for spacecraft walls and pumping liquid propellants
[NASA-CASE-XNP-08881] c17 N71-28747
Method of producing complex aluminum alloy parts of high temper, and products thereof
[NASA-CASE-MSC-19693-1] c26 N76-29401
SPACECRAFT CONTROL
Light sensitive digital aspect sensor for attitude control of earth satellites or space probes
[NASA-CASE-XGS-00359] c14 N70-34158
Spacecraft attitude control system using solar and earth sensors, gyroscopes, and jet actuators
[NASA-CASE-XNP-00465] c21 N70-35395
Multiple parachute system for landing control of Apollo type spacecraft
[NASA-CASE-XLA-00898] c02 N70-36804
Attitude control device for space vehicles
[NASA-CASE-XNP-00294] c21 N70-36938
Attitude orientation control of spin stabilized final stage space vehicles, using horizon

scanners
[NASA-CASE-XLA-00281] c21 N70-36943
Aerodynamic configuration of reentry vehicle heat shield to provide longitudinal and directional stability at hypersonic velocities
[NASA-CASE-XMS-04142] c31 N70-41631
Star sensor system for roll attitude control of spacecraft
[NASA-CASE-XNP-01307] c21 N70-41856
Photomultiplier detector of Canopus for spacecraft attitude control
[NASA-CASE-XNP-03914] c21 N71-10771
Development of spacecraft experiment pointing and attitude control system
[NASA-CASE-XLA-05464] c21 N71-14132
Development of attitude control system for spacecraft orientation
[NASA-CASE-XGS-04393] c21 N71-14159
Drive mechanism for operating reactance attitude control system for aerospace bodies
[NASA-CASE-XNP-01598] c21 N71-15583
Attitude detection system using stellar references for three-axis control and spin stabilized spacecraft
[NASA-CASE-XGS-03431] c21 N71-15642
Large amplitude, linear inertial reference system of vibrating string type for spacecraft reference plane
[NASA-CASE-XAC-03107] c23 N71-16098
Construction and method of arranging plurality of ion engines to form cluster thereby increasing efficiency and control by decreasing heat radiated to space
[NASA-CASE-XNP-02923] c28 N71-23081
Ion beam deflector system for electronic thrust vector control for ion propulsion yaw, pitch, and roll forces
[NASA-CASE-LEW-10689-1] c28 N71-26173
Heated porous plug microthruster for spacecraft reaction jet controlled systems such as fuel flow regulation, propellant disassociation, and heat transfer augmentation
[NASA-CASE-GSC-10640-1] c28 N72-18766
Development of thrust control system for application to control of aircraft and spacecraft
[NASA-CASE-MSC-13397-1] c21 N72-25595
All sky pointing attitude control system
[NASA-CASE-ARC-10716-1] c35 N77-20399

SPACECRAFT DESIGN

Lunar landing flight research vehicle
[NASA-CASE-XFR-00929] c31 N70-34966
Design and configuration of manned space capsule
[NASA-CASE-XLA-01332] c31 N71-15664
Development of spacecraft radiator cover
[NASA-CASE-MSC-12049] c31 N71-16080
Method and apparatus for connecting two spacecraft with probe of one inserted in rocket engine nozzle of other spacecraft
[NASA-CASE-MFS-11133] c31 N71-16222
Development and characteristics of protective coatings for spacecraft
[NASA-CASE-XNP-02507] c31 N71-17679
Development and characteristics of self supporting space vehicle
[NASA-CASE-XLA-00117] c31 N71-17680
Multi-mission space vehicle module stage design
[NASA-CASE-XMF-01543] c31 N71-17730
Development and characteristics of docking structure and apparatus for spacecraft docking
[NASA-CASE-XNP-05941] c31 N71-23912
Design and development of spacecraft with outer shell structure heat shielding and built-in, removable excursion module
[NASA-CASE-MSC-13047-1] c31 N71-25434
Spacecraft design with single point aerodynamic and hydrodynamic stability for emergency transport of men from space station to splashdown
[NASA-CASE-MSC-13281] c31 N72-18859
Space vehicle
[NASA-CASE-MFS-22734-1] c18 N75-19329
Space vehicle system
[NASA-CASE-MSC-12561-1] c18 N76-17185
Method and apparatus for neutralizing potentials induced on spacecraft surfaces
[NASA-CASE-GSC-11963-1] c33 N77-10429

SPACECRAFT DOCKING

Probe and drogue assembly for mechanical linking of two space vehicles
[NASA-CASE-XMS-03613] c31 N71-16346
Development and characteristics of docking structure and apparatus for spacecraft docking
[NASA-CASE-XNP-05941] c31 N71-23912
Latch for fastening spacecraft docking rings
[NASA-CASE-MSC-15474-1] c15 N71-26162
High energy absorption docking system design for docking large spacecraft
[NASA-CASE-MFS-20863] c31 N73-26876
Latch mechanism
[NASA-CASE-MSC-12549-1] c37 N74-27903
Spacecraft docking and alignment system --- using television camera system
[NASA-CASE-MSC-12559-1] c18 N76-14186
Multiple in-line docking capability for rotating space stations
[NASA-CASE-MFS-20855-1] c15 N77-10112
Combined docking and grasping device
[NASA-CASE-MFS-23088-1] c37 N77-23483

SPACECRAFT ELECTRONIC EQUIPMENT

Equipment for testing of ground station ranging equipment and spacecraft transponders
[NASA-CASE-XMS-05454-1] c07 N71-12391
Describing apparatus used in vacuum deposition of thin film inductive windings for spacecraft microcircuitry
[NASA-CASE-XNP-01667] c15 N71-17647
Nose cone mounted heat resistant antenna comprising plurality of adjacent layers of silica not introducing paths of high thermal conductivity through ablative shield
[NASA-CASE-XMS-04312] c07 N71-22984

SPACECRAFT ENVIRONMENTS

Portable environmental control and life support system for astronaut in and out of spacecraft
[NASA-CASE-XMS-09632-1] c05 N71-11203
Quick disconnect latch and handle combination for mounting articles on walls or supporting bases in spacecraft under zero gravity conditions
[NASA-CASE-MFS-11132] c15 N71-17649
Dual solid cryogens for spacecraft refrigeration insuring low temperature cooling for extended periods
[NASA-CASE-GSC-10188-1] c23 N71-24725
Dual stage check valve for cryogenic supply systems used in space flight environmental control system
[NASA-CASE-MSC-13587-1] c15 N73-30459
Metering gun for dispensing precisely measured charges of fluid
[NASA-CASE-MFS-21163-1] c54 N74-17853
Zero gravity separator
[NASA-CASE-LAR-10344-1] c35 N76-33470

SPACECRAFT GUIDANCE

Automatic ejection valve for attitude control and midcourse guidance of space vehicles
[NASA-CASE-XNP-00676] c15 N70-38996
Electrical and electromechanical trigonometric computation assembly and space vehicle guidance system for aligning perpendicular axes of two sets of three-axes coordinate references
[NASA-CASE-XMF-00684] c21 N71-21688
Design and characteristics of device for sensing solar radiation and providing spacecraft attitude control to maintain direction with respect to incident radiation
[NASA-CASE-XNP-05535] c14 N71-23040
Inertial gimbal alignment system for spacecraft guidance
[NASA-CASE-XMF-01669] c21 N71-23289
Hermetically sealed vibration damper design for use in gimbal assembly of spacecraft inertial guidance system
[NASA-CASE-MSC-10959] c15 N71-26243

SPACECRAFT INSTRUMENTS

Mechanical coordinate converter for use with spacecraft tracking antennas
[NASA-CASE-XNP-00614] c14 N70-36907
Air bearings for spacecraft gyros
[NASA-CASE-XMF-00339] c15 N70-39896
Unfolding boom assembly with knuckle joints for positioning equipment for spacecraft
[NASA-CASE-XGS-00938] c32 N70-41367
Pressurized cell micrometeoroid detector
[NASA-CASE-XLA-00936] c14 N71-14996

Guidance analyzer having suspended spacecraft simulating sphere for astronavigation
[NASA-CASE-XNP-09572] c14 N71-15621
Inertial component clamping assembly design for spacecraft guidance and control system mounting
[NASA-CASE-XMS-02184] c15 N71-20813
Optical projector system for establishing optimum arrangement of instrument displays in aircraft, spacecraft, other vehicles, and industrial instrument consoles
[NASA-CASE-XNP-03853] c23 N71-21882
Combined optical attitude and altitude indicating instrument for use in aircraft or spacecraft
[NASA-CASE-XLA-01907] c14 N71-23268
Spacecraft transponder and ground station radar system for mapping planetary surfaces
[NASA-CASE-NPO-11001] c07 N72-21118
Method and apparatus for providing active attitude control for spacecraft by converting any attitude motion of vehicle into simple rotational motion
[NASA-CASE-HQN-10439] c21 N72-21624
Design and development of thermomechanical pump for transmitting warming fluid through fluid circuit to control temperature of spacecraft instrumentation
[NASA-CASE-NPO-11417] c15 N73-24513
Deployable pressurized cell structure for a micrometeoroid detector
[NASA-CASE-LAR-10295-1] c35 N74-21062

SPACECRAFT LANDING
Non-reusable kinetic energy absorber for application in soft landing of space vehicles
[NASA-CASE-XLE-00810] c15 N70-34861
Plastic foam generator for space vehicle instrument payload package flotation in water landing
[NASA-CASE-XLA-00838] c03 N70-36778
Device for use in descending spacecraft as altitude sensor for actuating deceleration retrorockets
[NASA-CASE-XMS-03792] c14 N70-41812

SPACECRAFT LAUNCHING
Three stage motion restraining mechanism for restraining and damping three dimensional vibrational movement of gimballed package during launch of spacecraft
[NASA-CASE-GSC-10306-1] c15 N71-24694
Development and characteristics of squib actuated explosive disconnect for spacecraft release from launch vehicle
[NASA-CASE-NPO-11330] c33 N73-26958

SPACECRAFT MODELS
Space environment simulation system for measuring spacecraft electric field strength in plasma sheath
[NASA-CASE-XLE-02038] c09 N71-16086

SPACECRAFT MODULES
Radial module manned space station with artificial gravity environment
[NASA-CASE-XMS-01906] c31 N70-41373
Multi-mission space vehicle module stage design
[NASA-CASE-XNP-01543] c31 N71-17730
Design and development of spacecraft with outer shell structure heat shielding and built-in, removable excursion module
[NASA-CASE-MSC-13047-1] c31 N71-25434
Development and characteristics of thermal control system for maintaining constant temperature within spacecraft module with wide variations of component heat transfer
[NASA-CASE-GSC-11018-1] c31 N73-30829

SPACECRAFT POSITION INDICATORS
Device for determining relative angular position of spacecraft and radiating celestial body
[NASA-CASE-GSC-11444-1] c14 N73-28490
Spacecraft attitude sensing system design with narrow field of view sensor rotating about spacecraft x-y axis
[NASA-CASE-GSC-10890-1] c21 N73-30640

SPACECRAFT POWER SUPPLIES
Spacecraft battery seals
[NASA-CASE-XGS-03864] c15 N69-24320
Electrical power system for space flight vehicles operating over extended periods
[NASA-CASE-XNP-00517] c03 N70-34157
Lightweight, rugged, inexpensive satellite battery for producing electrical power from ionosphere using electrodes with different contact potentials
[NASA-CASE-XGS-01593] c03 N70-35408
Design and development of electric generator for space power system
[NASA-CASE-XLE-04250] c09 N71-20446
Monostable multivibrator for conserving power in spacecraft systems
[NASA-CASE-GSC-10082-1] c10 N72-20221
Rectangular solar cell stacked panels to generate electrical power aboard spacecraft
[NASA-CASE-NPO-11771] c03 N73-20040
Thermoelectric power system --- for spacecraft
[NASA-CASE-MFS-22002-1] c44 N76-16612
Solar energy power system
[NASA-CASE-MFS-21628-2] c44 N76-23675

SPACECRAFT PROPULSION
Colloidal particle generator for electrostatic engine for propelling space vehicles
[NASA-CASE-XLE-00817] c28 N70-33265
Spacecraft trajectory correction propulsion system
[NASA-CASE-XNP-01104] c28 N70-39931
Permanently magnetized ion engine casing construction for use in spacecraft propulsion systems
[NASA-CASE-XNP-06942] c28 N71-23293
Development of voice operated controller for controlling reaction jets of spacecraft
[NASA-CASE-XLA-04063] c31 N71-33160

SPACECRAFT RECOVERY
Assembly for opening flight capsule stabilizing and decelerating flaps with reference to capsule recovery
[NASA-CASE-XNP-00641] c31 N70-36410
Method for deployment of flexible wing glider from space vehicle with minimum impact and loading
[NASA-CASE-XMS-00907] c02 N70-41630

SPACECRAFT REENTRY
Manned space capsule configuration for orbital flight and atmospheric reentry
[NASA-CASE-XLA-00149] c31 N70-37938
Event recorder with constant speed motor which rotates recording disk
[NASA-CASE-XLA-01832] c14 N71-21006

SPACECRAFT SHIELDING
Development and characteristics of protective coatings for spacecraft
[NASA-CASE-XNP-02507] c31 N71-17679
Double-wall isothermal cylinder containing heat transfer fluid thermal reservoir as spacecraft insulation cover
[NASA-CASE-MFS-20355] c33 N71-25353
Binder stabilized zinc oxide pigmented coating for spacecraft thermal control
[NASA-CASE-XNP-07770-2] c18 N71-26772
Thermal insulation protection means
[NASA-CASE-MSC-12737-1] c34 N77-22423

SPACECRAFT STABILITY
Satellite stabilization reaction wheel scanner
[NASA-CASE-XGS-02629] c14 N71-21082
Attitude sensor
[NASA-CASE-LAR-10586-1] c19 N74-15089
Annular momentum control device used for stabilization of space vehicles and the like
[NASA-CASE-LAR-11051-1] c15 N76-14158

SPACECRAFT STRUCTURES
Collapsible, space erectable loop antenna system for space vehicle
[NASA-CASE-XNP-00437] c07 N70-40202
Electro-optical system for maintaining two-axis alignment during milling operations on large tank-sections
[NASA-CASE-XNP-00908] c14 N70-40238
Development of spacecraft radiator cover
[NASA-CASE-MSC-12049] c31 N71-16080
Design and construction of satellite appendage tie-down cord
[NASA-CASE-XGS-02554] c31 N71-21064
Development and characteristics of thermal sensitive panel for controlling ratio of solar absorptivity to surface emissivity for space vehicle temperature control
[NASA-CASE-XLA-07728] c33 N71-22890
Space expandable tether device for use as passageway between two docked spacecraft
[NASA-CASE-XMS-10993] c15 N71-28936
Delayed simultaneous appendage release mechanism for use on spacecraft equipped with despin

mechanisms and releasable components
[NASA-CASE-GSC-10814-1] c03 N73-20039
Development of composite structures for spacecraft to serve as anti-meteoroid device
[NASA-CASE-LAR-10788-1] c31 N73-20880
Structural heat pipe --- for spacecraft wall thermal insulation system
[NASA-CASE-GSC-11619-1] c34 N75-12222
Auger attachment method for insulation --- of spacecraft
[NASA-CASE-MSC-12615-1] c37 N76-19437
Particulate and solar radiation stable coating for spacecraft
[NASA-CASE-LAR-10805-2] c34 N77-18382
SPACECRAFT TELEVISION
Electrically operated rotary shutter for television camera aboard spacecraft
[NASA-CASE-XNP-00637] c14 N70-40273
Conversion system for transforming slow scan rate of Apollo TV camera on moon to fast scan of commercial TV
[NASA-CASE-XMS-07168] c07 N71-11300
SPACECRAFT TRACKING
Spacecraft ranging system
[NASA-CASE-NPO-10066] c09 N71-18598
Elimination of tracking occultation problems occurring during continuous monitoring of interplanetary missions by using Earth orbiting communications satellite
[NASA-CASE-XAC-06029-1] c31 N71-24813
Tracking mount for laser telescope employed in tracking large rockets and space vehicles to give information regarding azimuth and elevation
[NASA-CASE-MFS-14017] c14 N71-26627
Orbital and entry tracking accessory for globes --- to provide range requirements for reentry vehicles to any landing site
[NASA-CASE-LAR-10626-1] c19 N74-21015
Conical scan tracking system employing a large antenna --- for tracking spacecraft or radio sources
[NASA-CASE-NPO-14009-1] c32 N77-28357
SPACECREWS
Development and characteristics of inflatable structure to provide escape from orbit for spacecrews under emergency conditions
[NASA-CASE-XMS-06162] c31 N71-28851
SPALLATION
Method of producing I-123 --- by bombardment of cesium causing spallation
[NASA-CASE-LEW-11390-2] c25 N76-27383
SPARK GAPS
Spark gap type protective circuit for fast sensing and removal of overvoltage conditions
[NASA-CASE-XAC-08981] c05 N69-39897
Mechanism for measuring nanosecond time differences between luminous events using streak camera
[NASA-CASE-XLA-01987] c23 N71-23976
SPARK IGNITION
High temperature spark plug for igniting liquid rocket propellants
[NASA-CASE-XLE-00660] c28 N70-39925
SPARK PLUGS
High temperature spark plug for igniting liquid rocket propellants
[NASA-CASE-XLE-00660] c28 N70-39925
SPATIAL DISTRIBUTION
Electronic recording system for spatial mass distribution of liquid rocket propellant droplets or vapors ejected from high velocity nozzles
[NASA-CASE-NPO-10185] c10 N71-26339
SPATIAL FILTERING
Photographic film restoration system using Fourier transformation lenses and spatial filter
[NASA-CASE-MSC-12448-1] c14 N72-20394
Spatial filter for Q-switched lasers
[NASA-CASE-LEW-12164-1] c36 N77-32478
SPECTRAL REFLECTANCE
Single reflector interference spectrometer and drive system therefor
[NASA-CASE-NPO-11932-1] c35 N74-23040
SPECTROMETERS
Spectrometer using photoelectric effect to obtain spectral data
[NASA-CASE-XNP-04161] c14 N71-15599
Variable frequency nuclear magnetic resonance spectrometer providing drive signals over wide frequency range and minimizing noise effects
[NASA-CASE-XNP-09830] c14 N71-26266
Maksutov spectrograph for low light level research
[NASA-CASE-XLA-10402] c14 N71-29041
Dual purpose optical instrument capable of simultaneously acting as spectrometer and diffractometer
[NASA-CASE-XNP-05231] c14 N73-28491
Design of gamma ray spectrometer for measurement of intense radiation using Compton scattering effect
[NASA-CASE-MFS-21441-1] c14 N73-30392
Mossbauer spectrometer radiation detector
[NASA-CASE-LAR-11155-1] c35 N74-15091
Single reflector interference spectrometer and drive system therefor
[NASA-CASE-NPO-11932-1] c35 N74-23040
Spectrometer integrated with a facsimile camera
[NASA-CASE-LAR-11207-1] c35 N75-19613
Frequency scanning particle size spectrometer
[NASA-CASE-NPO-13606-1] c35 N75-19627
Resonant waveguide stark cell --- using microwave spectrometers
[NASA-CASE-LAR-11352-1] c33 N75-26245
Photoelectron spectrometer with means for stabilizing sample surface potential
[NASA-CASE-NPO-13772-1] c35 N76-26450
Ion and electron detector for use in an ICR spectrometer
[NASA-CASE-NPO-13479-1] c35 N77-10492
SPECTROPHOTOMETERS
Spectrophotofluorometer with 3-dimensional display to identify fluorescence spectra of carcinogenic and noncarcinogenic hydrocarbons
[NASA-CASE-XGS-01231] c14 N70-41676
Particle size spectrometer and refractometer
[NASA-CASE-NPO-13614-1] c35 N75-19628
High resolution Fourier interferometer-spectrophotopolarimeter
[NASA-CASE-NPO-13604-1] c35 N76-31490
Differential optoacoustic absorption detector
[NASA-CASE-NPO-13759-1] c35 N77-11363
SPECTROSCOPIC ANALYSIS
Cylindrical reflector for resolving wide angle light beam from telescope into narrow beam for spectroscopic analysis
[NASA-CASE-XGS-08269] c23 N71-26206
SPECTRUM ANALYSIS
Spectrometer using photoelectric effect to obtain spectral data
[NASA-CASE-XNP-04161] c14 N71-15599
Emission spectroscopy method for contamination monitoring of inert gas metal arc welding
[NASA-CASE-XMF-02039] c15 N71-15871
Method and apparatus for high resolution power spectrum analysis
[NASA-CASE-NPO-10748] c08 N72-20177
SPECULAR REFLECTION
Real time reflectometer --- measurement of specular reflectance
[NASA-CASE-MFS-23118-1] c35 N77-31465
SPEECH RECOGNITION
Speech analyzer
[NASA-CASE-GSC-11898-1] c32 N77-30309
SPEED CONTROL
System for maintaining motor at predetermined speed using digital pulses
[NASA-CASE-XMF-06892] c09 N71-24805
Optimal control system for automatic speed regulation of electric driven motor vehicle
[NASA-CASE-NPO-11210] c11 N72-20244
Two speed drive system --- mechanical device for changing speed on rotating vehicle wheel
[NASA-CASE-MFS-20645-1] c37 N74-23070
Low speed phaselock speed control system --- for brushless dc motor
[NASA-CASE-GSC-11127-1] c09 N75-24758
SPEED REGULATORS
Feedback control for direct current motor to achieve constant speed under varying loads
[NASA-CASE-MFS-14610] c09 N71-28886
SPHERES
Guidance analyzer having suspended spacecraft simulating sphere for astronavigation
[NASA-CASE-XNP-09572] c14 N71-15621
Plastic sphere for radar tracking and calibration
[NASA-CASE-XLA-11154] c07 N72-21117
SPHERICAL SHELLS
Hollow spherical electrode for shielding

dielectric junction between high voltage conductor and insulator
[NASA-CASE-XLE-03778] c09 N69-21542
Development of mechanical device for measuring distance of point within sphere from surface of sphere
[NASA-CASE-XLA-06683] c14 N72-28436
SPHERICAL TANKS
Gauge for measuring quantity of liquid in spherical tank in reduced gravity
[NASA-CASE-XMS-06236] c14 N71-21007
SPHERICAL WAVES
Electrical device for developing converging spherical shock waves
[NASA-CASE-MFS-20890] c14 N72-22439
SPHYGMOGRAPHY
A logic-controlled occlusive cuff system
[NASA-CASE-MSC-14836-1] c52 N76-27839
SPIKE NOZZLES
Constructing fluid spike nozzle to eliminate heat transfer and high temperature problems inherent in physical spikes
[NASA-CASE-XGS-01143] c31 N71-15647
SPIN DYNAMICS
Nutation damper for use on spinning body
[NASA-CASE-GSC-11205-1] c15 N73-25513
SPIN REDUCTION
Optical scanner mounted on rotating support structure with method of compensating for image or satellite rotation
[NASA-CASE-XGS-02401] c14 N69-27485
Bolt-latch mechanism for releasing despin weights from space vehicle
[NASA-CASE-XLA-00679] c15 N70-38601
Stretch Yo-Yo mechanism for reducing initial spin rate of space vehicle
[NASA-CASE-XGS-00619] c30 N70-40016
Stage separation system for spinning vehicles and payloads
[NASA-CASE-XLA-02132] c31 N71-10582
Flexible turnstile antenna system for reducing nutation in spin-oriented satellites
[NASA-CASE-XMF-00442] c31 N71-10747
SPIN STABILIZATION
Dynamic precession damping of spin-stabilized vehicles by using rate gyroscope and angular accelerometer
[NASA-CASE-XLA-01989] c21 N70-34295
Attitude orientation control of spin stabilized final stage space vehicles, using horizon scanners
[NASA-CASE-XLA-00281] c21 N70-36943
Attitude detection system using stellar references for three-axis control and spin stabilized spacecraft
[NASA-CASE-XGS-03431] c21 N71-15642
Spin phase synchronization of cartwheel satellite in polar orbit
[NASA-CASE-XGS-05579] c31 N71-15676
High velocity guidance and spin stabilization gyro controlled jet reaction system for launch vehicle payloads
[NASA-CASE-XLA-01339] c31 N71-15692
Passive dual spin misalignment compensators --- gyrostabilized device
[NASA-CASE-GSC-11479-1] c35 N74-28097
Deployable flexible ventral fins for use as an emergency spin recovery device in aircraft
[NASA-CASE-LAR-10753-1] c08 N74-30421
Thrust augmented spin recovery device
[NASA-CASE-LAR-11970-1] c08 N77-22147
SPIRAL WRAPPING
Adjustable spiral wire winding device
[NASA-CASE-XMS-02383] c15 N71-15918
SPIRALS (CONCENTRATORS)
Spiral groove seal --- for hydraulic rotating shaft
[NASA-CASE-LEW-10326-3] c37 N74-10474
SPIROMETERS
Compact bellows spirometer for high speed and high altitude space travel
[NASA-CASE-XAR-01547] c05 N69-21473
SPLASHING
Splash groove fuel injector
[NASA-CASE-LEW-12417-1] c07 N76-22198
SPLINES
Non-floating universal joint
[NASA-CASE-MSC-19546-1] c37 N77-25536
SPLINTS
Stretcher with rigid head and neck support with capability of supporting immobilized person in vertical position for removal from vehicle hatch to exterior also useful as splint stretcher
[NASA-CASE-XMF-06589] c05 N71-23159
SPORES
Lyophilized spore dispenser
[NASA-CASE-LAR-10544-1] c37 N74-13178
SPOT WELDS
Controlled arc spot welding method
[NASA-CASE-XMF-00392] c15 N70-34814
Automatic closed circuit television arc guidance control for welding joints
[NASA-CASE-MFS-13046] c07 N71-19433
Electric resistance spot welding and brazing for producing metal bonds with superior mechanical and structural characteristics
[NASA-CASE-LAR-11072-1] c15 N73-20535
SPRAYED COATINGS
Plasma spraying gun for forming diffusion bonded metal or ceramic coatings on substrates
[NASA-CASE-XLE-01604-2] c15 N71-15610
Production and application of sprayable fiber reinforced ablation material
[NASA-CASE-XLA-04251] c18 N71-26100
Metal plating process employing spraying of metallic power/peening particle mixture
[NASA-CASE-GSC-11163-1] c15 N73-32360
Sprayable low density ablator
[NASA-CASE-MFS-23506-1] c24 N77-15105
Apparatus for automatically spraying a coating material
[NASA-CASE-MFS-23506-2] c37 N77-20441
SPRAYERS
External device for liquid spray cooling of gas turbine blades
[NASA-CASE-XLE-00037] c28 N70-33372
Adhesive spray process for attaching biomedical skin electrodes
[NASA-CASE-XFR-07658-1] c05 N71-26293
Apparatus for liquid spray cooling of turbine blades
[NASA-CASE-XLE-00027] c33 N71-29152
Closed loop spray cooling apparatus --- for particle accelerator targets
[NASA-CASE-LEW-11981-1] c37 N76-20486
Apparatus for automatically spraying a coating material
[NASA-CASE-MFS-23506-2] c37 N77-20441
SPRAYING
Aircraft wheel spray drag alleviator for dual tandem landing gear
[NASA-CASE-XLA-01583] c02 N70-36825
SPREADING
Tool attachment for spreading or moving away loose elements from terminal posts during winding of filamentary elements
[NASA-CASE-XMF-02107] c15 N71-10809
SPRINGS (ELASTIC)
Belleville spring assembly with elastic guides having low hysteresis
[NASA-CASE-XNP-09452] c15 N69-27504
Multiple Belleville spring assembly with even load distribution
[NASA-CASE-XNP-00840] c15 N70-38225
Switching mechanism with energy stored in coil spring
[NASA-CASE-XGS-00473] c03 N70-38713
Load cell protection device using spring-loaded breakaway mechanism
[NASA-CASE-XMS-06782] c32 N71-15974
Vibration isolation system, using coaxial helical compression springs
[NASA-CASE-NPO-11012] c15 N72-11391
Spring operated accelerator and constant force spring mechanism therefor
[NASA-CASE-ARC-10898-1] c35 N77-18417
SPUTTERING
Deposition method for epitaxial beta SiC films having high degree of crystallographic perfection
[NASA-CASE-ERC-10120] c26 N69-33482
Development of procedure for producing thin transparent films of zinc oxide on transparent refractory substrate
[NASA-CASE-FRC-10019] c15 N73-12487

Technique and equipment for sputtering using apertured electrode and pulsed substrate bias
[NASA-CASE-LEW-10920-1] c17 N73-24569
Sputtering holes with ion beamlets
[NASA-CASE-LEW-11646-1] c20 N74-31269
Multitarget sequential sputtering apparatus
[NASA-CASE-NPO-13345-1] c37 N75-19684
Multilevel metallization method for fabricating a metal oxide semiconductor device
[NASA-CASE-MFS-23541-1] c33 N77-27308

SQUARE WAVES
High speed phase detector design indicating phase relationship between two square wave input signals
[NASA-CASE-XNP-01306-2] c09 N71-24596

SQUARES (MATHEMATICS)
Apparatus for computing square roots
[NASA-CASE-XGS-04768] c08 N71-19437

SQUIBS
Contamination free separation nut eliminating combustion products from ambient surroundings generated by squib firing
[NASA-CASE-XGS-01971] c15 N71-15922

STABILITY TESTS
Method and apparatus for checking the stability of a setup for making reflection type holograms
[NASA-CASE-MFS-21455-1] c35 N74-15146

STABILIZATION
Electro-optical stabilization of calibrated light source
[NASA-CASE-MSC-12293-1] c14 N72-27411
System for controlling torque buildup in suspension of gondola connected to balloon by parachute shroud lines
[NASA-CASE-GSC-11077-1] c02 N73-13008
Development of aerodynamic control system to control flutter over large range of oscillatory frequencies using stability augmentation techniques
[NASA-CASE-LAR-10682-1] c02 N73-26004
Radiation hardening of MOS devices by boron --- for stabilizing gate threshold potential
[NASA-CASE-GSC-11425-2] c76 N75-25730
Tetherline system for orbiting satellites
[NASA-CASE-MFS-23564-1] c13 N77-11079
Arc control in compact arc lamps
[NASA-CASE-NPO-10870-1] c33 N77-22386

STABILIZED PLATFORMS
Hydraulic drive mechanism for leveling isolation platforms
[NASA-CASE-XMS-03252] c15 N71-10658
Failure detection and control means for improved drift performance of a gimballed platform system
[NASA-CASE-MFS-23551-1] c04 N76-26175
Rotary leveling base platform
[NASA-CASE-ARC-10981-1] c35 N77-10498

STABILIZERS
Design and development of satellite despin device
[NASA-CASE-XNP-08523] c31 N71-20396

STABILIZERS (AGENTS)
Solid propellant stabilizer containing nitroguanidine
[NASA-CASE-NPO-12000] c27 N72-25699

STABILIZERS (FLUID DYNAMICS)
Assembly for opening flight capsule stabilizing and decelerating flaps with reference to capsule recovery
[NASA-CASE-XNP-00641] c31 N70-36410
Mechanical stabilization system for VTOL aircraft
[NASA-CASE-XLA-06339] c02 N71-13422
Attitude stabilizer for nonguided missile or vehicle with respect to trajectory
[NASA-CASE-ARC-10134] c30 N72-17873
Inflatable stabilizing system for use on life raft to reduce rocking and preclude capsizing
[NASA-CASE-MSC-12393-1] c02 N73-26006
Externally supported internally stabilized flexible duct joint
[NASA-CASE-MFS-19194-1] c37 N76-14460

STABLE OSCILLATIONS
Automatic measuring and recording of gain and zero drift characteristics of electronic amplifier
[NASA-CASE-XMS-05562-1] c09 N69-39986

STACKS
Remote fire stack igniter --- with solenoid-controlled valve
[NASA-CASE-MFS-21675-1] c25 N74-33378

STAGE SEPARATION
Stage separation using remote control release of joint with explosive insert
[NASA-CASE-XLA-02854] c15 N69-27490
Piezoelectric means for missile stage separation indication and stage initiation
[NASA-CASE-XLA-00791] c03 N70-39930
Space vehicle stage coupling and quick release separation mechanism
[NASA-CASE-XLA-01441] c15 N70-41679
Stage separation system for spinning vehicles and payloads
[NASA-CASE-XLA-02132] c31 N71-10582
Payload/spent rocket engine case separation system
[NASA-CASE-XLA-05369] c31 N71-15687
Separation mechanism for use between stages of multistage rocket vehicles
[NASA-CASE-XLA-00188] c15 N71-22874
Development of remotely controlled shaped charge for lateral displacement of rocket stages after separation
[NASA-CASE-XLA-04804] c31 N71-23008
Electrical circuit selection device for simulating stage separation of flight vehicle
[NASA-CASE-XMS-04631] c10 N71-23663
Frangible connecting link suitable for rocket stage separation
[NASA-CASE-MSC-11849-1] c15 N72-22488

STAGNATION PRESSURE
Flow meter for measuring stagnation pressure in boundary layer around high speed flight vehicle
[NASA-CASE-XFR-02007] c12 N71-24692
Stagnation pressure probe --- for measuring pressure of supersonic gas streams
[NASA-CASE-LAR-11139-1] c35 N74-32878

STAGNATION TEMPERATURE
Measuring conductive heat flow and thermal conductivity of laminar gas stream in cylindrical plug to simulate atmospheric reentry
[NASA-CASE-XLE-00266] c14 N70-34156

STAINING
Automated single-slide staining device
[NASA-CASE-LAR-11649-1] c51 N77-27677

STAINLESS STEELS
Joining aluminum to stainless steel by bonding aluminum coatings onto titanium coated stainless steel and brazing aluminum to aluminum/titanium coated steel
[NASA-CASE-MFS-07369] c15 N71-20443
Ultrasonic scanning system for in-place inspection of brazed tube joints
[NASA-CASE-MFS-20767-1] c38 N74-15130
Method of forming a wick for a heat pipe
[NASA-CASE-NPO-13391-1] c34 N76-27515
Method of making reinforced composite structure
[NASA-CASE-LEW-12619-1] c24 N77-19171
Stainless steel panel for selective absorption of solar energy and the method of producing said panel
[NASA-CASE-MFS-23518-2] c44 N77-31611

STAR TRACKERS
Star sensor system for roll attitude control of spacecraft
[NASA-CASE-XNP-01307] c21 N70-41856
Sun tracker with rotatable plane-parallel plate and two photocells
[NASA-CASE-XGS-01159] c21 N71-10678
Photomultiplier detector of Canopus for spacecraft attitude control
[NASA-CASE-XNP-03914] c21 N71-10771
Attitude detection system using stellar references for three-axis control and spin stabilized spacecraft
[NASA-CASE-XGS-03431] c21 N71-15642
Relay controlled voltage switching unit for scanning circuitry of star tracker
[NASA-CASE-NPO-11253] c09 N72-17157
Method for producing reticles for use in outer space
[NASA-CASE-GSC-11188-2] c21 N73-19630
Production method of star tracking reticles for transmitting in visible and near ultraviolet regions
[NASA-CASE-GSC-11188-1] c14 N73-32320
Formation of star tracking reticles
[NASA-CASE-GSC-11188-3] c74 N74-20008
Star scanner --- with a reticle with a pair of slits having differing separation
[NASA-CASE-GSC-11569-1] c89 N74-30886

STARK EFFECT
Resonant waveguide stark cell --- using microwave spectrometers
[NASA-CASE-LAR-11352-1] c33 N75-26245
Stark-effect modulation of CO2 laser with NH2D
[NASA-CASE-NPO-11945-1] c36 N76-18427
STARTERS
Starting circuit design for initiating and maintaining arcs in vapor lamps
[NASA-CASE-XNP-01058] c09 N71-12540
Motor run-up system --- power lines
[NASA-CASE-NPO-13374-1] c33 N75-19524
STATIC FRICTION
Kinetic and static friction force measurement between magnetic tape and magnetic head surfaces
[NASA-CASE-XNP-08680] c14 N71-22995
Static coefficient test method and apparatus
[NASA-CASE-GSC-11893-1] c35 N76-31489
STATIC INVERTERS
Describing static inverter with single or multiple phase output
[NASA-CASE-XMF-00663] c08 N71-18752
Development and characteristics of oscillating static inverter
[NASA-CASE-XGS-05289] c09 N71-19470
STATIC LOADS
Measuring shear-creep compliance of solid and liquid materials used in spacecraft components
[NASA-CASE-XLE-01481] c14 N71-10781
Apparatus for measuring load on cable under static or dynamic conditions comprising pulleys pivoting structure against restraint of tension strap
[NASA-CASE-XMS-04545] c15 N71-22878
STATIC PRESSURE
Pressure probe for sensing ambient static air pressures
[NASA-CASE-XLA-00481] c14 N70-36824
Ambient atmospheric pressure sensing device for determining altitude of flight vehicles
[NASA-CASE-XLA-00128] c15 N70-37925
Static pressure probe
[NASA-CASE-LAR-11552-1] c35 N76-14429
STATIONKEEPING
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[NASA-CASE-XLA-03132] c31 N71-22969
STATISTICAL CORRELATION
Optical sensing of supersonic flows by correlating deflections in laser beams through flow
[NASA-CASE-MFS-20642] c14 N72-21407
STATOR BLADES
Stator rotor tools
[NASA-CASE-MSC-16000-1] c07 N77-13062
STATORS
Nickel base alloy --- for gas turbine engine stator vanes
[NASA-CASE-LEW-12270-1] c26 N77-32280
STEADY STATE
Steady state thermal radiometers
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STEAM TURBINES
Vapor generating boiler system for turbine motor
[NASA-CASE-XLE-00785] c33 N71-16104
STEELS
Zinc dust formulation for abrasion resistant steel coatings
[NASA-CASE-GSC-10361-1] c18 N72-23581
STEERABLE ANTENNAS
Apparatus for generating microwave signals at progressively related phase angles for driving antenna array
[NASA-CASE-ERC-10046] c10 N71-18722
Satellite radio communication system with remote steerable antenna
[NASA-CASE-XNP-02389] c07 N71-28900
Amplitude steered array
[NASA-CASE-GSC-11446-1] c33 N74-20860
Phase array antenna control
[NASA-CASE-MSC-14939-1] c33 N77-19320
STEERING
Steerable solid propellant rocket motor adapted to effect payload orientation as multistage rocket stage or reduce velocity as retrorocket
[NASA-CASE-XNP-00234] c28 N70-38645
STELLAR LUMINOSITY
Development of star intensity measuring system which minimizes effects of outside interference
[NASA-CASE-XNP-06510] c14,N71-23797
STELLAR SPECTRA
Development of star intensity measuring system which minimizes effects of outside interference
[NASA-CASE-XNP-06510] c14 N71-23797
STEREOPHOTOGRAPHY
Stereo photomicrography system with stereo microscope for viewing specimen at various magnifications
[NASA-CASE-LAR-10176-1] c14 N72-20380
Field sequential stereo television
[NASA-CASE-MSC-12616-1] c32 N74-32601
STEREOSCOPIC VISION
Stereoscopic television system, including projecting pair of binocular images
[NASA-CASE-ARC-10160-1] c23 N72-27728
STERILIZATION
Using ethylene oxide in preparation of sterilized solid rocket propellants and encapsulating materials
[NASA-CASE-XNP-01749] c27 N70-41897
Ethylene oxide sterilization and encapsulating process for sterile preservation of instruments and solid propellants
[NASA-CASE-XNP-09763] c14 N71-20461
Environmentally controlled suit for working in sterile chamber
[NASA-CASE-LAR-10076-1] c05 N73-20137
Protein sterilization of firefly luciferase without denaturation
[NASA-CASE-GSC-10225-1] c06 N73-27086
Heat sterilizable patient ventilator
[NASA-CASE-NPO-13313-1] c54 N75-27761
STERILIZATION EFFECTS
Reliability of electrical connectors after heat sterilization
[NASA-CASE-NPO-10694] c09 N72-20200
STIMULATED EMISSION
Repetitively pulsed wavelength selective carbon dioxide laser
[NASA-CASE-ERC-10178] c16 N71-24832
STIRLING CYCLE
Stirling cycle engine and refrigeration systems
[NASA-CASE-NPO-13613-1] c37 N76-29590
STIRRING
Design of mechanical device for stirring several test tubes simultaneously
[NASA-CASE-XAC-06956] c15 N71-21177
STORAGE
Design and development of fluid sample collector
[NASA-CASE-XMS-06767-1] c14 N71-20435
STORAGE BATTERIES
Leak resistant bonded elastomeric seal for secondary electrochemical cells
[NASA-CASE-XGS-02631] c03 N71-23006
Automatically charging battery of electric storage cells
[NASA-CASE-XNP-04758] c03 N71-24605
Elimination of two step voltage discharge property of silver zinc batteries by using divalent silver oxide capacity of cell to charge anodes to monovalent silver state
[NASA-CASE-XGS-01674] c03 N71-29129
Electric storage battery with high impact resistance
[NASA-CASE-NPO-11021] c03 N72-20032
Hydrogen-bromine secondary battery
[NASA-CASE-NPO-13237-1] c44 N76-18641
Rechargeable battery which combats shape change of the zinc anode
[NASA-CASE-EQN-10862-1] c44 N76-29699
Electrically rechargeable REDOX flow cell
[NASA-CASE-LEW-12220-1] c44 N77-14581
Formulated plastic separators for soluble electrode cells --- rubber-ion trasport sheeting
[NASA-CASE-LEW-12358-1] c44 N77-18560
STORAGE STABILITY
Storage stable, thermally activated foaming compositions for erecting and rigidizing mechanisms of thin sheet solar collectors
[NASA-CASE-LAR-10373-1] c18 N71-26155
Atomic hydrogen storage method and apparatus --- in strong magnetic fields
[NASA-CASE-LEW-12081-1] c28 N76-22399
STORAGE TANKS
Expulsion bladder equipped storage tank structure
[NASA-CASE-XNP-00612] c11 N70-38182
Development of apparatus and method for testing leakage of large tanks

[NASA-CASE-XMF-02392] c32 N71-24285
STRAIN GAGE ACCELEROMETERS
Accelerometer with FM output signals indicative of mechanical strain on it
[NASA-CASE-XLA-00492] c14 N70-34799
Strain gage accelerometer for angular acceleration measurement
[NASA-CASE-XMS-05936] c14 N70-41682
STRAIN GAGE BALANCES
Self-balancing strain gage transducer with bridge circuit
[NASA-CASE-MFS-12827] c14 N71-17656
STRAIN GAGES
Semiconductor p-n junction on needle apex to provide stress and strain sensor
[NASA-CASE-XLA-04980] c09 N69-27422
Apparatus for forming wire grids for electric strain gages
[NASA-CASE-XLE-00023] c15 N70-33330
Force measuring instrument for structural members, particularly fastening bolts or studs
[NASA-CASE-XMF-00456] c14 N70-34705
Difference indicating circuit used in conjunction with device measuring gravitational fields
[NASA-CASE-XNP-06274] c10 N71-13537
Water cooled gage for strain measurements in high temperature environments
[NASA-CASE-XNP-09205] c14 N71-17657
Development of apparatus for measuring successive increments of strain on elastomers
[NASA-CASE-XMF-04680] c15 N71-19489
Strain gage measurement of elongation due to thermally and mechanically induced stresses
[NASA-CASE-XGS-04478] c14 N71-24233
Method for temperature compensating semiconductor gages by exposure to high energy radiation
[NASA-CASE-XLA-04555-1] c14 N71-25892
Pulsed excitation voltage circuit for strain gage bridge transducers
[NASA-CASE-FRC-10036] c09 N72-22200
Method for making semiconductor p-n junction stress and strain sensor
[NASA-CASE-XLA-04980-2] c14 N72-28438
Device for monitoring a change in mass in varying gravimetric environments
[NASA-CASE-MFS-21556-1] c35 N74-26945
Strain gauge ambiguity sensor for segmented mirror active optical system
[NASA-CASE-MFS-20506-1] c35 N75-12273
Subminiature insertable force transducer --- including a strain gage to measure forces in muscles
[NASA-CASE-NPO-13423-1] c33 N75-31329
Self-supporting strain transducer
[NASA-CASE-LAR-11263-1] c35 N75-33369
Strain gage mounting assembly
[NASA-CASE-NPO-13170-1] c35 N76-14430
High temperature strain gage calibration fixture
[NASA-CASE-LAR-11500-1] c35 N76-24523
Miniature biaxial strain transducer
[NASA-CASE-LAR-11648-1] c35 N77-14407
A CW ultrasonic bolt tensioning monitor
[NASA-CASE-LAR-12016-1] c32 N77-15236
STRAIN RATE
Process for analysis of strain field of structures subjected to large deformations involving low modulus substrate with thin coating
[NASA-CASE-LAR-10765-1] c32 N73-20740
STRAPDOWN INERTIAL GUIDANCE
All sky pointing attitude control system
[NASA-CASE-ARC-10716-1] c35 N77-20399
STRAPS
Meter for use in detecting tension in straps having predetermined elastic characteristics
[NASA-CASE-MFS-22189-1] c35 N75-19615
STRESS ANALYSIS
Development of system for measuring damping characteristics of structure or system subjected to random forces or influnces
[NASA-CASE-ARC-10154-1] c14 N72-22440
Process for analysis of strain field of structures subjected to large deformations involving low modulus substrate with thin coating
[NASA-CASE-LAR-10765-1] c32 N73-20740
High temperature strain gage calibration fixture
[NASA-CASE-LAR-11500-1] c35 N76-24523
STRESS CONCENTRATION
Self-supporting strain transducer
[NASA-CASE-LAR-11263-1] c35 N75-33369
Method of electrically pre-stressing insulation to provide directional increase in dc potential breakdown
[NASA-CASE-LEW-12273-1] c33 N77-17357
STRESS CORROSION
Method to prevent stress corrosion cracking in titanium alloys
[NASA-CASE-NPO-10271] c17 N71-16393
Method and apparatus for inducing compressive stresses in pressure vessel to prevent stress corrosion
[NASA-CASE-XLA-07390] c15 N71-18616
STRESS MEASUREMENT
Semiconductor p-n junction on needle apex to provide stress and strain sensor
[NASA-CASE-XLA-04980] c09 N69-27422
Force measuring instrument for structural members, particularly fastening bolts or studs
[NASA-CASE-XMF-00456] c14 N70-34705
Self-balancing strain gage transducer with bridge circuit
[NASA-CASE-MFS-12827] c14 N71-17656
Servocontrol system for measuring local stresses at geometric discontinuity in stressed material
[NASA-CASE-XLA-08530] c32 N71-25360
A CW ultrasonic bolt tensioning monitor
[NASA-CASE-LAR-12016-1] c32 N77-15236
Amplifying ribbon extensometer
[NASA-CASE-LAR-11825-1] c35 N77-22449
STRESS RELIEVING
Nut and bolt fastener permitting all-directional movement of skin sections with respect to supporting structure
[NASA-CASE-XLA-01807] c15 N71-10799
STRESSES
Tape recorder designed for low power consumption and resistance to operational failure under high stress conditions
[NASA-CASE-XGS-08259] c14 N71-23698
Strain gage measurement of elongation due to thermally and mechanically induced stresses
[NASA-CASE-XGS-04478] c14 N71-24233
Strain arrestor plate for fused silica tile --- bonding of thermal insulation to metallic plates or structural parts
[NASA-CASE-MSC-14182-1] c27 N76-14264
STRETCHERS
Development and characteristics of rescue litter with inflatable flotation device for water rescue application
[NASA-CASE-XMS-04170] c05 N71-22748
Stretcher with rigid head and neck support with capability of supporting immobilized person in vertical position for removal from vehicle hatch to exterior also useful as splint stretcher
[NASA-CASE-XMF-06589] c05 N71-23159
STRETCHING
Device for securing together structural members with axially stretched bolt and nut
[NASA-CASE-GSC-11149-1] c15 N73-30457
STRINGS
Cord restraint system for pressure suit joints
[NASA-CASE-XMS-09635] c05 N71-24623
STRIP
A solar array strip and a method for forming the same
[NASA-CASE-NPO-13652-1] c44 N77-28585
STRUCTURAL ANALYSIS
Window defect planar mapping technique
[NASA-CASE-MSC-19442-1] c74 N77-10899
STRUCTURAL DESIGN
Structural design of high pressure regulator valve
[NASA-CASE-XNF-00710] c15 N71-10778
Graphic illustration of lifting body design
[NASA-CASE-FRC-10063] c01 N71-12217
Design of ring wing vehicle of high drag-to-weight ratio to withstand reentry stress into low density atmosphere
[NASA-CASE-XLA-04901] c31 N71-24315
Opto-mechanical subsystem with temperature compensation through isothermal design
[NASA-CASE-GSC-12059-1] c35 N77-27366

Lightweight reflector assembly
[NASA-CASE-NPO-13707-1] c74 N77-28933
STRUCTURAL ENGINEERING
Composite sandwich lattice structure
[NASA-CASE-LAR-11898-2] c24 N77-26242
Apparatus for assembling space structure
[NASA-CASE-MFS-23579-1] c12 N77-31213
STRUCTURAL FAILURE
Method and apparatus for nondestructive testing of pressure vessels
[NASA-CASE-NPO-12142-1] c38 N76-28563
STRUCTURAL MEMBERS
Broadband chokes and absorbers to reduce spurious radiation patterns of antenna array caused by support structures
[NASA-CASE-XMS-05303] c07 N69-27462
Electro-optical/computer system for aligning large structural members and maintaining correct position
[NASA-CASE-XNP-02029] c14 N70-41955
Nut and bolt fastener permitting all-directional movement of skin sections with respect to supporting structure
[NASA-CASE-XLA-01807] c15 N71-10799
Universal joints for connecting two displaced shafts or members
[NASA-CASE-NPO-10646] c15 N71-28467
Fabrication of light weight panel structure using pairs of elongate hollow ribs of semicircular configuration
[NASA-CASE-LAR-11052-1] c32 N73-13929
Device for securing together structural members with axially stretched bolt and nut
[NASA-CASE-GSC-11149-1] c15 N73-30457
Method of laminating structural members
[NASA-CASE-XLA-11028-1] c24 N74-27035
Folding structure fabricated of rigid panels
[NASA-CASE-XHQ-02146] c18 N75-27040
Strain arrestor plate for fused silica tile --- bonding of thermal insulation to metallic plates or structural parts
[NASA-CASE-MSC-14182-1] c27 N76-14264
STRUCTURAL STABILITY
Flanged major modular assembly jig
[NASA-CASE-MSC-19372-1] c39 N76-31562
STRUCTURAL VIBRATION
Rectangular electric conductors for conductor cables to withstand spacecraft vibration and controlled atmosphere
[NASA-CASE-MFS-14741] c09 N70-20737
Determining sway of buildings by low frequency device using pendulum
[NASA-CASE-XMF-00479] c14 N70-34794
Transducer for measuring deflections from vibrating structures
[NASA-CASE-XLA-03135] c32 N71-16428
STRUCTURES
Deformation measuring apparatus with feedback control for arbitrarily shaped structures
[NASA-CASE-LAR-10098] c32 N71-26681
STRUTS
Low onset rate energy absorber in form of strut assembly for crew couch of Apollo command module
[NASA-CASE-MSC-12279-1] c15 N70-35679
Collapsible support for antenna reflector applied to installation of spacecraft antennas
[NASA-CASE-NPO-11751] c07 N73-24176
Automatically lockable axially extensible strut --- for helicopters
[NASA-CASE-LAR-11900-1] c05 N77-18134
STUDS (STRUCTURAL MEMBERS)
Design of quick release locking pin for joining two or more load-carrying structural members
[NASA-CASE-MFS-18495] c15 N72-11385
Tool for mounting and removing studs with adhesive coated head portion
[NASA-CASE-MFS-20299] c15 N72-11392
Insert facing tool --- manually operated cutting tool for forming studs in honeycomb material
[NASA-CASE-MFS-21485-1] c37 N74-25968
STYRENES
Heat resistant polymers of oxidized styrylphosphine
[NASA-CASE-MSC-14903-1] c27 N76-28425
SUBLIMATION
Tubular sublimatory evaporator heat sink
[NASA-CASE-ARC-10912-1] c34 N77-19353
SUBMINIATURIZATION
Micromicrcampere current measuring circuit, with two subminiature thermionic diodes with filament cathodes
[NASA-CASE-XNP-00384] c09 N71-13530
SUBREFLECTORS
Dish antenna having switchable beamwidth --- with truncated concave ellipsoid subreflector
[NASA-CASE-GSC-11760-1] c33 N75-19516
SUBSONIC SPEED
Aerospace vehicle with variable planform for hypersonic and subsonic flight
[NASA-CASE-XLA-00805] c31 N70-38010
Construction of leading edges of surfaces for aerial vehicles performing from subsonic to above transonic speeds
[NASA-CASE-XLA-01486] c01 N71-23497
Airfoil shape for flight at subsonic speeds --- design analysis and aerodynamic characteristics of the GAW-1 airfoil
[NASA-CASE-LAR-10585-1] c02 N76-22154
SUBSONIC WIND TUNNELS
Variable geometry wind tunnel for testing aircraft models at subsonic speeds
[NASA-CASE-XLA-07430] c11 N72-22246
SUBSTRATES
Means and methods of depositing thin films on substrates
[NASA-CASE-XNP-00595] c15 N70-34967
Fabrication of solar cell banks for attaching solar cells to base members or substrates
[NASA-CASE-XNP-00826] c03 N71-20895
Method and apparatus for fabricating solar cell panels
[NASA-CASE-XNP-03413] c03 N71-26726
Fabrication of polycrystalline solar cells on low-cost substrates
[NASA-CASE-GSC-12022-1] c44 N76-28635
A complementary DMOS-VMOS integrated circuit structure
[NASA-CASE-GSC-12190-1] c33 N77-29403
SUBSTRUCTURES
Supporting structure for simultaneous exposure of pellets to X rays
[NASA-CASE-XNP-06031] c15 N71-15606
Opto-mechanical subsystem with temperature compensation through isothemal design
[NASA-CASE-GSC-12059-1] c35 N77-27366
SULFATES
Nitroaniline sulfate, intumescent paints
[NASA-CASE-ARC-10099-1] c18 N71-15469
SULFONES
Electrolytic cell structure
[NASA-CASE-LAR-11042-1] c33 N75-27252
SULFUR COMPOUNDS
Mercaptan terminated polymer containing sulfonic acid salts of nitrosubstituted aromatic amines for heat and moisture resistant coatings
[NASA-CASE-ARC-10325] c06 N72-25147
SULFUR DIOXIDES
Stack plume visualization system
[NASA-CASE-LAR-11675-1] c45 N76-17656
Process for removing sulfur dioxide from gas streams --- using iron as a catalyst
[NASA-CASE-MSC-16299-1] c45 N77-31668
SUM RULES
Describing circuit for obtaining sum of squares of numbers
[NASA-CASE-XGS-04765] c08 N71-18693
SUNGLASSES
Pliable frame for sunglasses in emergency survival kits
[NASA-CASE-XMS-06064] c05 N71-23096
SUNLIGHT
Illumination system design for use as sunlight simulator in space environment simulators with multiple light sources reflected to single virtual source
[NASA-CASE-HQN-10781] c23 N71-30292
Illumination control apparatus for compensating solar light
[NASA-CASE-KSC-11010-1] c44 N77-15493
SUPERCONDUCTING MAGNETS
Cryogenic flux-gated magnetometer using superconductors
[NASA-CASE-XAC-02407] c14 N69-27423
Improved alternator with windings of superconducting materials acting as permanent magnet
[NASA-CASE-XLE-02824] c03 N69-39890

Segmented superconducting magnet producing staggered magnetic field and suitable for broadband traveling wave masers
[NASA-CASE-XGS-10518] c16 N71-28554
Operating properties of superconducting magnet in vacuum environment
[NASA-CASE-XNP-06503] c23 N71-29049
Magnetometer using superconducting rotating body
[NASA-CASE-NPO-13388-1] c35 N76-16390

SUPERCONDUCTIVITY
Superconducting alternator design with cryogenic fluid for cooling windings below critical temperature
[NASA-CASE-XLE-02823] c09 N71-23443
Superconductive resonant cavity for improved signal to noise ratio in communication signal
[NASA-CASE-MSC-12259-2] c07 N72-33146
Superconducting magnetic field trapping device for producing magnetic field in air
[NASA-CASE-XNP-01185] c26 N73-28710
Doped Josephson tunneling junction for use in a sensitive IR detector
[NASA-CASE-NPO-13348-1] c33 N75-31332

SUPERCONDUCTORS
Superconductive accelerometer employing variable force principle to determine acceleration of bodies
[NASA-CASE-XNP-01099] c14 N71-15969
Controlled diffusion reaction process for masking substrate of twisted multifilament superconductive ribbon
[NASA-CASE-LEW-11726-1] c26 N73-26752
Twisted wire or tube superconductor for filament windings
[NASA-CASE-LEW-11015] c26 N73-32571

SUPERFLUIDITY
Helium refining by superfluidity
[NASA-CASE-XNP-00733] c06 N70-34946
Method and apparatus for generating coherent radiation in the ultra-violet region and above by use of distributed feedback
[NASA-CASE-NPO-13346-1] c36 N76-29575

SUPERHEATING
Thermal energy storage system --- operating on superheating of liquids
[NASA-CASE-MFS-23167-1] c44 N76-31667

SUPERHIGH FREQUENCIES
Independent gain and bandwidth control of a traveling wave maser
[NASA-CASE-NPO-13801-1] c36 N76-31514
Swept group delay measurement
[NASA-CASE-NPO-13909-1] c33 N77-17358
Redundant RF system for space applications
[NASA-CASE-NPO-13955-1] c32 N77-28358

SUPERSONIC AIRCRAFT
Variable sweep wing configuration for supersonic aircraft
[NASA-CASE-XLA-00230] c02 N70-33255
Supersonic aircraft variable sweep wing planform for varying aspect ratio
[NASA-CASE-XLA-00350] c02 N70-38011
Development and characteristics of variable sweep wing control system for supersonic aircraft
[NASA-CASE-XLA-03659] c02 N71-11041
Development and characteristics of translating horizontal tail assembly for supersonic aircraft
[NASA-CASE-XLA-08801-1] c02 N71-11043
Design of supersonic aircraft with novel fixed, swept wing planform
[NASA-CASE-XLA-04451] c02 N71-12243
Absorptive, nonreflecting barrier mounted between closely spaced jet engines on supersonic aircraft, for preventing shock wave interference
[NASA-CASE-XLA-02865] c28 N71-15563
Oblique-wing supersonic aircraft
[NASA-CASE-ARC-10470-3] c05 N76-29217

SUPERSONIC COMBUSTION
Supersonic-combustion rocket
[NASA-CASE-LEW-11058-1] c20 N74-13502

SUPERSONIC DRAG
Bluff-shaped annular configuration for supersonic decelerator for reentry vehicles
[NASA-CASE-XLE-00222] c02 N70-37939

SUPERSONIC FLIGHT
Variable aspect ratio and variable sweep delta wing planforms for supersonic aircraft
[NASA-CASE-XLA-00221] c02 N70-33266
Supersonic or hypersonic vehicle control system comprising elevons with hinge line sweep and free of adverse aerodynamic cross coupling
[NASA-CASE-XLA-08967] c02 N71-27088

SUPERSONIC FLOW
Optical sensing of supersonic flows by correlating deflections in laser beams through flow
[NASA-CASE-MFS-20642] c14 N72-21407
Stagnation pressure probe --- for measuring pressure of supersonic gas streams
[NASA-CASE-LAR-11139-1] c35 N74-32878

SUPERSONIC INLETS
Airflow control system for supersonic inlets
[NASA-CASE-LEW-11188-1] c02 N74-20646
Shock position sensor for supersonic inlets --- measuring pressure in the throat of a supersonic inlet
[NASA-CASE-LEW-11915-1] c35 N76-14431

SUPERSONIC NOZZLES
Penshaped, supersonic exhaust nozzle design
[NASA-CASE-XLE-00057] c28 N70-38711
Telescoping-spike supersonic nozzle for turbojet or ramjet engines
[NASA-CASE-XLE-00005] c28 N70-39899
Electric arc heater with supersonic nozzle and fixed arc length for use in high temperature wind tunnels
[NASA-CASE-XAC-01677] c09 N71-20816

SUPERSONIC SPEEDS
Continuous operation, single phased, induction plasma accelerator producing supersonic speeds
[NASA-CASE-XLA-01354] c25 N70-36946
Static pressure probe
[NASA-CASE-LAR-11552-1] c35 N76-14429

SUPERSONIC TRANSPORTS
Position locating system for remote aircraft using voice communication and digital signals
[NASA-CASE-GSC-10087-2] c21 N71-13958
Traffic control system for supersonic transports using synchronous satellite for data relay between vehicles and ground station
[NASA-CASE-GSC-10087-1] c02 N71-19287
System and method for position locating for air traffic control involving supersonic transports
[NASA-CASE-GSC-10087-3] c07 N72-12080
Doppler compensated communication system for locating supersonic transport position
[NASA-CASE-GSC-10087-4] c07 N73-20174
Supersonic transport --- aircraft design
[NASA-CASE-LAR-11932-1] c05 N76-31219

SUPPORT INTERFERENCE
Spherical bearing
[NASA-CASE-MFS-23447-1] c37 N77-11403

SUPPORT SYSTEMS
Hydraulic support apparatus for dynamic testing of space vehicles under near-free flight conditions
[NASA-CASE-XNP-03248] c11 N71-10604
Supporting structure for simultaneous exposure of pellets to X rays
[NASA-CASE-XNP-06031] c15 N71-15606
Multilegged support system for wind tunnel test models subjected to thermal dynamic loading
[NASA-CASE-XLA-01326] c11 N71-21481
Adjustable support device with jacket screw for altering distance between base and supported member
[NASA-CASE-NPO-10721] c15 N72-27484
Hydrostatic bearing support
[NASA-CASE-LEW-11158-1] c37 N77-28486

SUPPORTS
Support techniques for restraint of slender bodies such as launch vehicles
[NASA-CASE-XLA-02704] c11 N69-21540
Pneumatic control of telescopic mirror support system
[NASA-CASE-XLA-03271] c11 N69-24321
Optical scanner mounted on rotating support structure with method of compensating for image or satellite rotation
[NASA-CASE-XGS-02401] c14 N69-27485
Support for flexible conductor cable between drawers or racks holding electronic equipment and cabinet assembly housing drawers or racks
[NASA-CASE-XNP-07567] c15 N71-18701
Swivel support for gas bearing for position adjustment between ball and supporting cup
[NASA-CASE-XNP-07808] c15 N71-23812

Tracking mcunt for laser telescope employed in tracking large rockets and space vehicles to give infcrmatien regarding azimuth and elevation
[NASA-CASE-MFS-14017] c14 N71-26627
Gas bearing for model support with capacity for measuring angular displacement cf model in bearing
[NASA-CASE-XLA-09346] c15 N71-28740
Adjustable rigid mount for trihedral mirror formed cf alloy with small coefficient of thermal expansion supporting screws and spring-biased plates
[NASA-CASE-XNP-08907] c23 N71-29123
Slotted fine-adjustment support for optical devices
[NASA-CASE-MFS-20249] c15 N72-11386
Base support fcr expansible and contractible coupling between two members
[NASA-CASE-NPO-11059] c15 N72-17454
Optical mirror support system
[NASA-CASE-XER-07896-2] c23 N72-22673
Fixture for supporting articles during vibration tests ccmprising integral annular unit
[NASA-CASE-MFS-20523] c14 N72-27412
Design and development cf test stand system for supporting test items in vacuum chamber
[NASA-CASE-MFS-21362] c11 N73-20267
Collapsible support for antenna reflector applied tc installatien cf spacecraft antennas
[NASA-CASE-NPO-11751] c07 N73-24176
Method of making porous conductive supports for electrodes,--- by electroforming and stacking nickel fcils
[NASA-CASE-GSC-11367-1] c44 N74-19692
Thrust-isolating mounting --- characteristics of support for loads mounted in spacecraft
[NASA-CASE-MFS-21680-1] c18 N74-27397
Locking mechanism for crthopedic braces
[NASA-CASE-GSC-12082-2] c52 N77-27694

SUPPRESSORS
Electronic background suppression field scanning sensor for detecting point source targets
[NASA-CASE-XGS-05211] c07 N69-39980

SURFACE ACOUSTIC WAVE DEVICES
Distributed feedback acoustic surface wave oscillatcr
[NASA-CASE-NPO-13673-1] c71 N77-26919

SURFACE DEFECTS
Surface defect detection by reflected microwave radiation pattern
[NASA-CASE-ARC-10009-1] c15 N71-17822
Method and device for detection of surface discontinuities or defects
[NASA-CASE-MSC-14187-1] c35 N74-32879

SURFACE DIFFUSION
Metallic film diffusion into metal or ceramic surfaces for boundary lubrication in aerospace environments
[NASA-CASE-XLE-01765] c18 N71-10772

SURFACE FINISHING
Development cf procedure for producing thin transparent films of zinc oxide on transparent refractory substrate
[NASA-CASE-FRC-10019] c15 N73-12487
Device and method for determining X ray reflection efficiency, scattering properties, and surface finish of optical surfaces
[NASA-CASE-MFS-20243] c23 N73-13662
Solar cell surface treatment
[NASA-CASE-LEW-11330-1] c44 N76-14612
Solar cell surface treatment
[NASA-CASE-LEW-11330-2] c44 N76-33624
Surface finishing --- for aircraft wings
[NASA-CASE-MSC-12631-1] c24 N77-28225
Surface finishing --- of metal airfoils by adhesive bonding
[NASA-CASE-MSC-12631-2] c05 N77-31131

SURFACE IONIZATION
Electrodes having array of small surfaces for field icrization
[NASA-CASE-ERC-10013] c09 N71-26678
Development cf method and apparatus for detecting surface ions cn silicon diodes and transistcrs
[NASA-CASE-ERC-10325] c15 N72-25457

SURFACE LAYERS
Bismuth and lead surface coatings for gas bearings in aerospace engineering
[NASA-CASE-XGS-02011] c15 N71-20739
Method and apparatus for stable silicon dioxide layers on silicon grown in silicon nitride ambient
[NASA-CASE-ERC-10073-1] c24 N74-19769

SURFACE PROPERTIES
Anti-wettable materials brazing processes using titanium and zirconium for surface pretreatment
[NASA-CASE-XMS-03537] c15 N69-21471
Ablation article and surface for analyzing flow transition on ablative surface
[NASA-CASE-LAR-10439-1] c33 N73-27796
Dual measurement ablation sensor
[NASA-CASE-LAR-10105-1] c34 N74-15652
Apparatus for scanning the surface of a cylindrical body
[NASA-CASE-NPO-11861-1] c36 N74-20009
Apparatus for microbiological sampling --- including automatic swabbing
[NASA-CASE-LAR-11069-1] c35 N75-12272
Device for measuring the contour of a surface
[NASA-CASE-LAR-11869-1] c35 N77-10497
Penetrometer --- for determining load bearing characteristics of inclined surfaces
[NASA-CASE-NPO-11103-1] c35 N77-27367
Bearing material
[NASA-CASE-LEW-11930-3] c24 N77-32249

SURFACE REACTIONS
Chemical spot test for identifying magnesium or magnesium alloys used in aerospace applications
[NASA-CASE-LAR-10953-1] c17 N73-27446

SURFACE ROUGHNESS
Roughness detector for recording surface pattern of irregularities
[NASA-CASE-XLA-00203] c14 N70-34161
Optical apparatus for visual detection of roundness and regularity of cone surfaces
[NASA-CASE-XNP-00462] c14 N70-34298
Describing device for surveying contour of surface using X-Y plotter and traveling transducer
[NASA-CASE-XLA-08646] c14 N71-17586
Surface roughness measuring system
[NASA-CASE-NPO-13862-1] c32 N77-17325

SURFACE ROUGHNESS EFFECTS
Aerodynamically stable meteorological ballocn using surface roughness effect
[NASA-CASE-XNP-04163] c02 N71-23007

SURFACE VEHICLES
Optimal control system for automatic speed regulation of electric driven motor vehicle
[NASA-CASE-NPO-11210] c11 N72-20244
Self-propelled vehicle with wheel, track laying, and walking capability for exploratory expolaration
[NASA-CASE-NPO-11366] c11 N73-26238
Short range laser obstacle detector --- for surface vehicles using laser diode array
[NASA-CASE-NPO-11856-1] c36 N74-15145
Vehicle locating system utilizing AM broadcasting station carriers
[NASA-CASE-NPO-13217-1] c32 N75-26194
An improved vehicular impact absorption system
[NASA-CASE-NPO-14014-1] c37 N77-31501

SURFACE WAVES
Development of method for suppressing excitation of electromagnetic surface waves on dielectric converter antenna
[NASA-CASE-XLA-10772] c07 N71-28980

SURFACES
Techniques for recovery of multistage rocket vehicles by providing lifting surfaces on individual sections
[NASA-CASE-XNP-00389] c31 N70-34176
Kinetic and static friction force measurement between magnetic tape and magnetic head surfaces
[NASA-CASE-XNP-08680] c14 N71-22995
Three-axis adjustable loading structure
[NASA-CASE-FRC-10051-1] c35 N74-13129

SURGERY
Intra-ocular pressure normalization apparatus
[NASA-CASE-LEW-12955-1] c52 N77-30736
Intra-ocular pressure normalization technique and equipment
[NASA-CASE-LEW-12723-1] c52 N77-30737

SURGES
Silicon controlled rectifier inverter with compensation of transients to avoid false gating
[NASA-CASE-XLA-08507] c09 N69-39984

Turn on current transient limiter for controlling peak current flow in high capacity load
[NASA-CASE-GSC-10413] c10 N71-26531
SURGICAL INSTRUMENTS
Ultrasonic device for ophthalmic eye surgery with safe removal of macerated material
[NASA-CASE-LEW-11669-1] c05 N73-27062
Ophthalmic liquifaction pump
[NASA-CASE-LEW-12051-1] c52 N75-33640
Improved tissue macerating instrument --- ophthalmic liquifaction pump
[NASA-CASE-LEW-12668-1] c52 N76-23837
SURVIVAL EQUIPMENT
Survival couch for aircraft or spacecraft crews
[NASA-CASE-XLA-00118] c05 N70-33285
Lightweight life preserver without fastening devices
[NASA-CASE-XMS-00864] c05 N70-36493
Pliable frame for sunglasses in emergency survival kits
[NASA-CASE-XMS-06064] c05 N71-23096
SUSPENDING (HANGING)
Parallel motion suspension device for measuring instruments
[NASA-CASE-XNP-01567] c15 N70-41310
Cable suspension and inclined walkway system for simulating reduced or zero gravity environments
[NASA-CASE-XLA-01787] c11 N71-16028
Suspended mass oscillation damper based on impact energy absorption for damping wind induced oscillations of tall stacks, antennas, and umbilical towers
[NASA-CASE-LAR-10193-1] c15 N71-27146
SUSPENDING (MIXING)
A 2 degree/90 degree laboratory scattering photometer
[NASA-CASE-GSC-12088-1] c35 N76-17369
SWEAT COOLING
Transpiration cooled turbine blade made from metallic or ceramic wires
[NASA-CASE-XLE-00020] c15 N70-33226
Transpirationally cooled heat ablation system for interplanetary spacecraft reentry shielding
[NASA-CASE-XMS-02677] c31 N70-42075
Method of electroforming a rocket chamber
[NASA-CASE-LEW-11118-1] c20 N74-32919
SWEEP CIRCUITS
Transistorized circuit for producing multiple slope voltage sweep
[NASA-CASE-XMS-03542] c09 N71-28926
SWEEP EFFECT
Supersonic or hypersonic vehicle control system comprising elevons with hinge line sweep and free of adverse aerodynamic cross coupling
[NASA-CASE-XLA-08967] c02 N71-27088
SWELLING
Para-benzoquinone dioxime and concentrated mineral acid processed to yield intumescent or fire resistant, heat insulating materials
[NASA-CASE-ARC-10304-1] c18 N73-26572
SWEPT WINGS
Design of supersonic aircraft with novel fixed, swept wing planform
[NASA-CASE-XLA-04451] c02 N71-12243
Acoustically swept rotor
[NASA-CASE-ARC-11106-1] c05 N77-31130
SWIRLING
Slosh and swirl alleviator for liquid propellant tanks during transport and flight
[NASA-CASE-XLA-05749] c15 N71-19569
Swirl can, full-annulus combustion chambers for high performance gas turbine engines
[NASA-CASE-LEW-11326-1] c23 N73-30665
SWITCHES
Switching mechanism with energy stored in coil spring
[NASA-CASE-XGS-00473] c03 N70-38713
Digital memory system with multiple switch cores for driving each word location
[NASA-CASE-XNP-01466] c10 N71-26434
Radio frequency controlled solid state switch
[NASA-CASE-ARC-10136-1] c09 N72-22202
SWITCHING CIRCUITS
Solid state switching circuit design to increase current capacity of low rated relay contacts
[NASA-CASE-XNP-09228] c09 N69-27500
Power control switching circuit using low voltage semiconductor controlled rectifiers for high voltage isolation
[NASA-CASE-XNP-02713] c10 N69-39888
Selective gold diffusion on monolithic silicon chips for switching and nonswitching amplifier devices and circuits and linear and digital logic circuits
[NASA-CASE-EEC-10072] c09 N70-11148
Electrical power system for space flight vehicles operating over extended periods
[NASA-CASE-XMF-00517] c03 N70-34157
High speed low level voltage commutating switch
[NASA-CASE-XAC-00060] c09 N70-39915
Switching circuit with regeneratively connected transistors eliminating power consumption when not in use
[NASA-CASE-XNP-02654] c10 N70-42032
Using electron beam switching for brushless motor commutation
[NASA-CASE-XGS-01451] c09 N71-10677
Increasing power conversion efficiency of electronic amplifiers by power supply switching
[NASA-CASE-XMS-00945] c09 N71-10798
Silicon controlled rectifier pulse gate amplifier for blocking false gating caused by negative transient voltages
[NASA-CASE-XLA-07497] c09 N71-12514
Describing magnetic core current switching device for steering bipolar current pulses to memory units
[NASA-CASE-NPO-10201] c08 N71-18694
Transistorized dc-coupled multivibrator with noninverted output signal
[NASA-CASE-XNP-09450] c10 N71-18723
Reversible current directing circuitry for reversible motor control
[NASA-CASE-XLA-09371] c10 N71-18724
Constructing Exclusive-Or digital logic circuit in single module
[NASA-CASE-XLA-07732] c08 N71-18751
Polarization diversity monopulse tracking receiver design without radio frequency switches
[NASA-CASE-XGS-03501] c09 N71-20864
Sight switch using infrared source and sensor mounted beside eye
[NASA-CASE-XMF-03934] c09 N71-22985
Complementary regenerative transistorized switch circuit employing positive and negative feedback
[NASA-CASE-XGS-02751] c09 N71-23015
Reliable magnetic core circuit apparatus with application in selection matrices for digital memories
[NASA-CASE-XNP-01318] c10 N71-23033
Electric circuit for producing high current pulse having fast rise and fall time
[NASA-CASE-XMS-04919] c09 N71-23270
Electric circuit for reversing direction of current flow
[NASA-CASE-XNP-00952] c10 N71-23271
Switching series regulator with gating control network
[NASA-CASE-XMS-09352] c09 N71-23316
Microwave waveguide switch with rotor position control
[NASA-CASE-XNP-06507] c09 N71-23548
Signaling summary alarm circuit with semiconductor switch for faulty contact indications
[NASA-CASE-XLE-03061-1] c10 N71-24798
Solid state circuit for switching alternating current input signal as function of direct current gating transistor
[NASA-CASE-XNP-06505] c10 N71-24799
Inverters for changing direct current to alternating current
[NASA-CASE-XGS-06226] c10 N71-25950
Design and development of multistage current steering switch with inductively coupled magnetic cores
[NASA-CASE-XNP-08567] c09 N71-26000
Pulse duration control device for driving slow response time loads in selected sequence including switching and delay circuits and magnetic storage
[NASA-CASE-XGS-04224] c10 N71-26418
Turn on current transient limiter for controlling peak current flow in high capacity load
[NASA-CASE-GSC-10413] c10 N71-26531

Input radio frequency circuit for switching type absolute temperature measuring radiometer for noise sources
[NASA-CASE-ERC-11020] c14 N71-26774
Inverter drive circuit for semiconductor switch
[NASA-CASE-LEW-10233] c10 N71-27126
Phase locked demodulator with bandwidth switching amplifier circuit
[NASA-CASE-XNP-01107] c10 N71-28859
Monostable multivibrator for producing output pulse widths with positive feedback NOR gates
[NASA-CASE-MSC-13492-1] c10 N71-28860
Digital magnetic core memory with sensing amplifier circuits
[NASA-CASE-XNP-01012] c08 N71-28925
Current regulating voltage divider design with load current shunting
[NASA-CASE-MFS-20935] c09 N71-34212
Relay controlled voltage switching unit for scanning circuitry of star tracker
[NASA-CASE-NPO-11253] c09 N72-17157
Spacecraft solar cell system with switching circuit to provide compensation for environmental changes
[NASA-CASE-GSC-10669-1] c03 N72-20031
Flow rate switch for detecting variations in fluid flow velocity through conduits of pressurized systems
[NASA-CASE-NPO-10722] c09 N72-20199
Switching type voltage regulator with relatively simple circuit arrangement
[NASA-CASE-LEW-11005-1] c09 N72-21243
Development and characteristics of data multiplexer circuit using field effect transistors arranged in tree switching configuration
[NASA-CASE-NPO-11333] c08 N72-22162
Pulse coupling circuit with switch between generator and winding
[NASA-CASE-LEW-10433-1] c09 N72-22197
Solid state remote circuit selector switching circuit
[NASA-CASE-LEW-10387] c09 N72-22201
Pressure operated electrical switch responsive to pressure decrease after pressure increase
[NASA-CASE-LAR-10137-1] c09 N72-22204
Transistorized switching logic circuits with tunnel diodes
[NASA-CASE-GSC-10878-1] c10 N72-22236
Switching circuit for control of cathode ray tube beam with fast rise time for output signal
[NASA-CASE-KSC-10647-1] c10 N72-31273
Electronic video editor for switching video input signals to common output channel
[NASA-CASE-KSC-10003] c10 N73-13235
Solid state switch for variable circuit switching
[NASA-CASE-NPO-10817-1] c08 N73-30135
Transparent switchboard which permits optical display devices to be adapted for use in man machine communications
[NASA-CASE-MSC-13746-1] c10 N73-32143
High isolation RF signal selection switches
[NASA-CASE-NPO-13081-1] c33 N74-22814
Isolated output system for a class D switching-mode amplifier
[NASA-CASE-MFS-21616-1] c33 N75-30429
Dual digital video switcher
[NASA-CASE-KSC-10782-1] c33 N75-30431
Multi-computer multiple data path hardware exchange system
[NASA-CASE-NPO-13422-1] c60 N76-14818
Window comparator
[NASA-CASE-FRC-10090-1] c33 N77-11296
Sustained arc ignition system
[NASA-CASE-LEW-12444-1] c33 N77-28385
Dual mode solid state power switch
[NASA-CASE-MFS-22880-2] c33 N77-31407

SWITCHING THEORY
Multiple circuit switch apparatus requiring minimum hand and eye movement by operator
[NASA-CASE-XAC-03777] c10 N71-15909
Magnetic tape head function switching system
[NASA-CASE-GSC-11956-1] c35 N75-25134

SWIVELS
Swivel support for gas bearing for position adjustment between ball and supporting cup
[NASA-CASE-XMF-07808] c15 N71-23812

SYNCHRONISM
Synchronizing apparatus for multi-access satellite time division multiplex system
[NASA-CASE-XGS-05918] c07 N69-39974
Circuitry for generating sync signals in FM communication systems including video information
[NASA-CASE-XNP-10830] c07 N71-11281
Development of method for synchronizing clocks at several ground stations based on signals received from spacecraft or satellites
[NASA-CASE-XNP-08875] c10 N71-23099
Pulse generator for synchronizing or resetting electronic signals without requiring separate external source
[NASA-CASE-XGS-03632] c09 N71-23311
Time synchronization system for synchronizing clocks at remote locations with master clock using moon reflected coded signals
[NASA-CASE-NPO-10143] c10 N71-26326
System designed to reduce time required for obtaining synchronization in data communication with spacecraft utilizing pseudonoise codes
[NASA-CASE-NPO-10214] c10 N71-26577

SYNCHRONIZED OSCILLATORS
Development of phase demodulation system with two phase locked loops
[NASA-CASE-XNP-00777] c10 N71-19469
Phase locked phase modulation system with voltage controlled oscillator for final phase linearity
[NASA-CASE-XNP-05382] c10 N71-23544
Automatic frequency control device for providing frequency reference for voltage controlled oscillator
[NASA-CASE-KSC-10393] c09 N72-21247

SYNCHRONIZERS
Development and characteristics of burst synchronization detection system
[NASA-CASE-XMS-05605-1] c10 N71-19468
Time division relay synchronizer with master sync pulse for activating binary counter to produce signal identifying time slot for station
[NASA-CASE-GSC-10373-1] c07 N71-19773
Design and development of synchronous servo loop control system
[NASA-CASE-XNP-03744] c10 N71-20448
Digital synchronizer for extracting binary data in receiver of PSK/PCM communication system
[NASA-CASE-NPO-10851] c07 N71-24613
Video sync processor with phase locked system
[NASA-CASE-KSC-10002] c10 N71-25865
Pulse code modulated signal synchronizer
[NASA-CASE-MSC-12462-1] c32 N74-20809
Pulse code modulated signal synchronizer
[NASA-CASE-MSC-12494-1] c32 N74-20810
System for generating timing and control signals
[NASA-CASE-NPO-13125-1] c33 N75-19519
Telemetry synchronizer
[NASA-CASE-GSC-11868-1] c17 N76-22245

SYNCHRONOUS MOTORS
Synchronous dc direct-drive system comprising multiple-loop hybrid control system controlling load directly connected to actuator
[NASA-CASE-GSC-10065-1] c10 N71-27136
Motor run-up system --- power lines
[NASA-CASE-NPO-13374-1] c33 N75-19524

SYNCHRONOUS SATELLITES
Position locating system for remote aircraft using voice communication and digital signals
[NASA-CASE-GSC-10087-2] c21 N71-13958
Serrodyne traveling wave tube reentrant amplifier for synchronous communication satellites operating at microwave frequencies
[NASA-CASE-XGS-01022] c07 N71-16088
Traffic control system for supersonic transports using synchronous satellite for data relay between vehicles and ground station
[NASA-CASE-GSC-10087-1] c02 N71-19287
Tracking antenna system with array for synchronous satellite or ground based radar
[NASA-CASE-GSC-10553-1] c07 N71-19854
Satellite network synchronization system with multiple access to multiplex repeater
[NASA-CASE-GSC-10390-1] c07 N72-11149
Development of device for simulating charge and discharge cycle of battery in synchronous orbit
[NASA-CASE-GSC-11211-1] c03 N72-25020
Camera arrangement --- for satellite scanning of earth or sky

[NASA-CASE-GSC-12032-2] c35 N76-19408
Systems and methods for determining radio frequency interference
[NASA-CASE-GSC-12150-1] c32 N77-12247
SYNTHESIS
Synthesis of polymeric schiff bases by schiff-base exchange reactions
[NASA-CASE-XNP-08651] c06 N71-11236
Preparation of ordered poly/arylenesiloxane/ polymers
[NASA-CASE-XNP-10753] c06 N71-11237
Synthesis and chemical properties of imidazopyrrolone/imide copolymers
[NASA-CASE-XLA-08802] c06 N71-11238
Stable polyimide synthesis from mixtures of monomeric diamines and polycarboxylic acid esters
[NASA-CASE-LEW-11325-1] c06 N73-27980
SYNTHESIZERS
Digitally controlled frequency synthesizer for pulse frequency modulation telemetry systems
[NASA-CASE-XGS-02317] c09 N71-23525
SYNTHETIC FIBERS
Manufacture of fluid containers from fused coated polyester sheets having resealable septum
[NASA-CASE-NPO-10123] c15 N71-20835
Structure of fabric layers for micrometeoroid protection garment with capability for eliminating heat shorts for use in manufacturing space suits
[NASA-CASE-MSC-12109] c18 N71-26285
Flexible barrier membrane comprising porous substrate and incorporating liquid gallium or indium metal used as sealant barriers for spacecraft walls and pumping liquid propellants
[NASA-CASE-XNP-08881] c17 N71-28747
Composite lamination method --- of resin impregnated fiber tape
[NASA-CASE-LAR-12019-1] c24 N77-22179
SYNTHETIC RESINS
Process permitting application of synthetic resin coating to irregular-shaped objects at ambient temperature
[NASA-CASE-XNP-06508] c18 N69-39895
SYSTEM FAILURES
Tape recorder designed for low power consumption and resistance to operational failure under high stress conditions
[NASA-CASE-XGS-08259] c14 N71-23698
Fault tolerant clock apparatus utilizing a controlled minority of clock elements
[NASA-CASE-MSC-12531-1] c35 N75-30504
SYSTEMS ANALYSIS
Analog to digital converter analyzing system
[NASA-CASE-NPO-10560] c08 N72-22166
SYSTEMS ENGINEERING
Design of magnetohydrodynamic induction machine with end poles which produce compensating magnetic fields
[NASA-CASE-XNP-07481] c25 N69-21929
Hovering type flying vehicle design and principle mechanisms for manned or unmanned use
[NASA-CASE-MSC-12111-1] c02 N71-11039
Solar battery with interconnecting means for plural cells
[NASA-CASE-XNP-06506] c03 N71-11050
Transparent polycarbonate resin, shell helmet and latch design for high altitude and space flight
[NASA-CASE-XMS-04935] c05 N71-11190
Design and operation of multi-feed cone Cassegrain antenna
[NASA-CASE-NPO-10539] c07 N71-11285
Method and apparatus for measuring potentials in plasmas
[NASA-CASE-XLE-00821] c25 N71-15650
Design and operation of viscous pendulum damper
[NASA-CASE-XLA-02079] c12 N71-16894
Alarm system design for monitoring one or more relay circuits
[NASA-CASE-XMS-10984-1] c10 N71-19417
Wide range analog data compression system
[NASA-CASE-XGS-02612] c08 N71-19435
Space suit body heat exchanger design composed of thermal conductance yarn and liquid coolant loops
[NASA-CASE-XMS-09571] c05 N71-19439
Silicon radiation detecting probe design for in vivo biomedical use

[NASA-CASE-XMS-01177] c05 N71-19440
Design and operation of high speed binary to decimal conversion system
[NASA-CASE-XGS-01230] c08 N71-19544
Spatter proof evaporant source design for use in vacuum deposition of solid thin films on substrates
[NASA-CASE-XNP-06065] c15 N71-20395
Method and apparatus for fabrication of heat insulating and ablative reentry structure
[NASA-CASE-XMS-02009] c33 N71-20834
Polarization diversity monopulse tracking receiver design without radio frequency switches
[NASA-CASE-XGS-03501] c09 N71-20864
Pneumatic cantilever beams and platform for space erectable structure
[NASA-CASE-XLA-01731] c32 N71-21045
Magnetically opened diaphragm design with camera, shutter and expansion tube applications
[NASA-CASE-XLA-03660] c15 N71-21060
Portable apparatus producing high velocity annular air column surrounding low velocity, filtered, superclean air central core for industrial clean room environmental control
[NASA-CASE-XNP-03212] c15 N71-22721
Rotary spindle lathe attachments for machining geometrical cones
[NASA-CASE-XMS-04292] c15 N71-22722
Apparatus and method for spin forming tubular elbows with high strength, uniform thickness, and close tolerances
[NASA-CASE-XNP-01083] c15 N71-22723
Spacecraft air lock system to provide ingress and egress of astronaut without subjecting vehicular environment to vacuum of space
[NASA-CASE-XLA-02050] c31 N71-22968
Method of stationkeeping for lenticular gravity gradient satellites
[NASA-CASE-XLA-03132] c31 N71-22969
Filler valve design for supplying liquid propellants at high pressure to space vehicles
[NASA-CASE-XNP-01747] c15 N71-23024
Method and apparatus for producing very low temperature refrigeration based on gas pressure balance
[NASA-CASE-XNP-08877] c15 N71-23025
Monitoring circuit design for sampling circuit control and reduction of time-bandwidth in video communication systems
[NASA-CASE-XNP-02791] c07 N71-23026
Multisample test chamber for exposing materials to X rays, temperature change, and gaseous conditions and determination of material effects
[NASA-CASE-XMS-02930] c11 N71-23042
Variable duration pulse integrator design for integrating pulse duration modulated pulses with elimination of ripple content
[NASA-CASE-XLA-01219] c10 N71-23084
Sealed electrochemical cell with flexible casing for varying electrolyte level in cell
[NASA-CASE-XGS-01513] c03 N71-23336
Mosaic semiconductor radiation detector and position indicator systems engineering for low energy particles
[NASA-CASE-XGS-03230] c14 N71-23401
Device for measuring two orthogonal components of force with gallium flotation of measuring target for use in vacuum environments
[NASA-CASE-XAC-04885] c14 N71-23790
Transducer circuit design with single coaxial cable for input and output connections including incorporation into miniaturized catheter transducer
[NASA-CASE-ARC-10132-1] c09 N71-24597
Method of attaching cover glass to silicon solar cell without using adhesive
[NASA-CASE-XLE-08569-2] c03 N71-24681
Development of attitude control system for sounding rocket stabilization during ballistic phase of flight
[NASA-CASE-XGS-01650] c31 N71-24750
Temperature telemetric transmitter with frequency determining tank circuit for short range transmission
[NASA-CASE-NPO-10649] c07 N71-24840
Tuning arrangement for frequency control of magnetron-type electron discharge device
[NASA-CASE-XNP-09771] c09 N71-24841

Broadband modified turnstile antenna for use in space tracking and communications
[NASA-CASE-MSC-12209] c09 N71-24842
Apparatus to determine electric field strength by measuring deflection of electron beam impinging on target
[NASA-CASE-XMF-06617] c09 N71-24843
Binary to decimal decoder logic circuit design with feedback control and display device
[NASA-CASE-XKS-06167] c08 N71-24890
Noninterruptable digital counter circuit design with display device for pulse frequency modulation
[NASA-CASE-XNP-09759] c08 N71-24891
Quick disconnect duct coupling device for single-handed operation
[NASA-CASE-MFS-20395] c15 N71-24903
Brushless dc tachometer design with Hall effect crystals and output voltage magnitude proportional to rotor speed
[NASA-CASE-MFS-20385] c09 N71-24904
Pneumatic mechanism for releasing hook and loop fasteners between large rigid structures
[NASA-CASE-XMS-10660-1] c15 N71-25975
Sealed fluorescent tube light unit capable of connection with other units to form string of work lights
[NASA-CASE-XKS-05932] c09 N71-26787
Apparatus for semiautomatic inspection of microfilmed documents for density, resolution, size, and position
[NASA-CASE-MFS-20240] c14 N71-26788
Method and apparatus for remote measurement of displacement of marks on specimen undergoing tensile test
[NASA-CASE-NPO-10778] c14 N72-11364
Spacecraft solar cell system with switching circuit to provide compensation for environmental changes
[NASA-CASE-GSC-10669-1] c03 N72-20031
Electric storage battery with high impact resistance
[NASA-CASE-NPO-11021] c03 N72-20032
Method and apparatus for providing active attitude control for spacecraft by converting any attitude motion of vehicle into simple rotational motion
[NASA-CASE-HQN-10439] c21 N72-21624
Development of light sensing system for controlled orientation of object relative to sun or other light source
[NASA-CASE-NPO-11311] c14 N72-25414
Development of thrust control system for application to control of aircraft and spacecraft
[NASA-CASE-MSC-13397-1] c21 N72-25595
Development of computer program for estimating reliability of self-repair and fault-tolerant systems with respect to selected system and mission parameters
[NASA-CASE-NPO-13086-1] c15 N73-12495
Design and development of active control system for air cushion vehicle to reduce or eliminate effects of excessive vertical vibratory acceleration
[NASA-CASE-LAR-10531-1] c02 N73-13023
Measurement system for physical quantity represented by or converted to variable frequency signal
[NASA-CASE-MFS-20658-1] c14 N73-30386
Design of precision vertical alignment system using laser with gravitationally sensitive cavity
[NASA-CASE-ARC-10444-1] c16 N73-33397
System for calibrating pressure transducer
[NASA-CASE-LAR-10910-1] c35 N74-13132
Three mirror glancing incidence system for X-ray telescope
[NASA-CASE-MFS-21372-1] c74 N74-27866
Holographic system for nondestructive testing
[NASA-CASE-MFS-21704-1] c35 N75-25124
Improved solar heating system
[NASA-CASE-LAR-12009-1] c44 N76-32649
A non-tracking solar energy collector system
[NASA-CASE-NPO-13813-1] c44 N77-19579
A cantilever mounted resilient pad gas bearing
[NASA-CASE-LEW-12569-1] c37 N77-24496
Compact pulsed laser having improved heat conductance
[NASA-CASE-NPO-13147-1] c36 N77-25502

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TACHOMETERS
Digital cardiotachometer incorporating circuit for measuring heartbeat rate of subject over predetermined portion of one minute also converting rate to beats per minute
[NASA-CASE-XMS-02399] c05 N71-22896
Brushless dc tachometer design with Hall effect crystals and output voltage magnitude proportional to rotor speed
[NASA-CASE-MFS-20385] c09 N71-24904
Development of instantaneous reading tachometer for measuring electrocardiogram signal rate
[NASA-CASE-MFS-20418] c14 N73-24473
Tachometer
[NASA-CASE-MFS-23175-1] c35 N77-30436
TAKEOFF
Aircraft instrument for indicating malfunctions during takeoff
[NASA-CASE-XLA-00100] c14 N70-36807
Aircraft indicator for pilot control of takeoff roll, climbout path and verticle flight path in poor visibility conditions
[NASA-CASE-XLA-00487] c14 N70-40157
TANGENTS
Integrated circuit tangnet function generator
[NASA-CASE-MSC-13907-1] c10 N73-26230
TANK GEOMETRY
Liquid propellant tank design with semitoroidal bulkhead
[NASA-CASE-XMF-01899] c31 N70-41948
TANKS (CONTAINERS)
Radiation source and detection system for measuring amount of liquid inside tanks independently of liquid configuration
[NASA-CASE-MSC-12280] c27 N71-16348
Development of apparatus and method for testing leakage of large tanks
[NASA-CASE-XMF-02392] c32 N71-24285
Design and development of device to prevent clogging in hoppers containing particulate materials
[NASA-CASE-LAR-10961-1] c15 N73-12496
Floating baffle for tank drain
[NASA-CASE-KSC-10639] c15 N73-26472
Method of producing a storage bulb for an atomic hydrogen maser
[NASA-CASE-NPO-13050-1] c36 N75-15029
TANTALUM
Oxygen-doped tantalum emitter for thermionic devices such as cesium vapor diodes
[NASA-CASE-NPO-11138] c03 N70-34646
Arc electrode of graphite with tantalum ball tip
[NASA-CASE-XLE-04788] c09 N71-22987
Organometallic compounds of niobium and tantalum useful for film deposition
[NASA-CASE-XNP-04023] c06 N71-28808
Tantalum modified ferritic iron base alloys --- for use in high temperature environments
[NASA-CASE-LEW-12095-1] c26 N76-17233
Thermocouples of tantalum and rhenium alloys for more stable vacuum-high temperature performance
[NASA-CASE-LEW-12050-1] c35 N77-32454
TANTALUM ALLOYS
Evaporating crucible of tantalum-tungsten foil, nickel alumina bonding agent, and ceramic coating
[NASA-CASE-XLA-03105] c15 N69-27483
TANTALUM CARBIDES
Thermal shock and erosion resistant tantalum carbide ceramic material
[NASA-CASE-LAR-11902-1] c27 N76-23436
TANTALUM OXIDES
Development of thin film temperature sensor from TaO
[NASA-CASE-NPO-11775] c26 N72-28761
TAPE RECORDERS
Plural recorder system which limits signal recording to signals of sufficient interest
[NASA-CASE-XMS-06949] c09 N69-21467
Endless loop tape transport mechanism for driving and tensioning recording medium in magnetic tape recorder
[NASA-CASE-XGS-01223] c07 N71-10609
Development of low friction magnetic recording tape

[NASA-CASE-XGS-00373] c23 N71-15978
Tape guidance system for multichannel digital recording system
[NASA-CASE-XNP-09453] c08 N71-19420
Design and development of synchronous servo loop control system
[NASA-CASE-XNP-03744] c10 N71-20448
Development of data storage system for storing digital data in high density format on magnetic tape
[NASA-CASE-XNP-02778] c08 N71-22710
Digital telemetry system apparatus to reduce tape recorder wow and flutter noise during playback
[NASA-CASE-XGS-01812] c07 N71-23001
Tape recorder designed for low power consumption and resistance to operational failure under high stress conditions
[NASA-CASE-XGS-08259] c14 N71-23698
Transient video signal tape recorder with expanded playback
[NASA-CASE-ARC-10003-1] c09 N71-25866
Closed loop servosystem for variable speed tape recorders onboard spacecraft
[NASA-CASE-NPO-10700] c07 N71-33613
Design and characteristics of recording system for selective reprocessing and filtering of data to obtain optimum signal to noise ratios
[NASA-CASE-ERC-10112] c07 N72-21119
Video tape recorder with scan conversion playback for color television signals
[NASA-CASE-NPO-10166-1] c07 N73-22076
Magnetic tape head function switching system
[NASA-CASE-GSC-11956-1] c35 N75-25134
Scan converting video tape recorder
[NASA-CASE-NPO-10166-2] c35 N76-16391
Method of and means for testing a tape record/playback system
[NASA-CASE-MFS-22671-2] c35 N77-17426

TAPERED COLUMNS
Method for shaping regeneratively cooled rocket motor casing having minimum thickness at each channel cross section
[NASA-CASE-XLE-00409] c28 N71-15658
Regeneratively cooled rocket motor casing with tapered channels to insure minimum thicknesses at each channel cross section for necessary strength requirements
[NASA-CASE-XLE-05689] c28 N71-15659

TARGET ACQUISITION
Acquisition and tracking system for optical radar
[NASA-CASE-MFS-20125] c16 N72-13437
Target acquisition antenna feed with reflector system
[NASA-CASE-GSC-10064-1] c10 N72-22235
Development of electronic detection system for remotely determining number and movement of enemy personnel
[NASA-CASE-ARC-10097-2] c07 N73-25160

TARGET RECOGNITION
Electronic background suppression field scanning sensor for detecting point source targets
[NASA-CASE-XGS-05211] c07 N69-39980

TARGET SIMULATORS
Simulator for practicing the mating of an observer-controlled object with a target
[NASA-CASE-MFS-23052-2] c14 N77-18179

TECHNOLOGY TRANSFER
Stator rotor tools
[NASA-CASE-MSC-16000-1] c07 N77-13062

TECHNOLOGY UTILIZATION
Nozzle extraction process and handlemeter for measuring handle
[NASA-CASE-LAR-12147-1] c27 N77-10198
Rotary leveling base platform
[NASA-CASE-ARC-10981-1] c35 N77-10498
Two wavelength double pulse tunable dye laser
[NASA-CASE-LAR-12012-1] c36 N77-10517
Apparatus and method for reducing thermal stress in a turbine rotor
[NASA-CASE-LEW-12232-1] c07 N77-18160
Sequencing device utilizing planetary gear set
[NASA-CASE-MSC-19510-1] c37 N77-19459
Collapsible corrugated horn antenna
[NASA-CASE-LAR-11745-1] c32 N77-24339

TEFLON (TRADEMARK)
Reinforced FEP Teflon composite material diffusion bonded to metal substrate
[NASA-CASE-MFS-20482] c15 N72-22492
Method of producing a storage bulb for an atomic hydrogen maser
[NASA-CASE-NPO-13050-1] c36 N75-15029
Lead-oxygen dc power supply system having a closed loop oxygen and water system
[NASA-CASE-MFS-23059-1] c44 N76-27664

TELECOMMUNICATION
Adaptive compression signal processor for PCM communication systems
[NASA-CASE-XLA-03076] c07 N71-11266
Circuitry for generating sync signals in FM communication systems including video information
[NASA-CASE-XNP-10830] c07 N71-11281
Automatic estimation of signal to noise ratio and other parameters in signal communication systems
[NASA-CASE-XNP-05254] c07 N71-20791
Digital synchronizer for extracting binary data in receiver of PSK/PCM communication system
[NASA-CASE-NPO-10851] c07 N71-24613
Encoders designed to generate comma free biorthogonal Reed-Muller type code comprising conversion of 64 6-bit words into 64 32-bit data for communication purposes
[NASA-CASE-NPO-10595] c10 N71-25917
Multicarrier communications system for transmitting modulated signals from single transmitter
[NASA-CASE-NPO-11548] c07 N73-26118
Synchronized digital communication system
[NASA-CASE-XNP-03623] c09 N73-28084
Coherent receiver employing nonlinear coherence detection for carrier tracking
[NASA-CASE-NPO-11921-1] c32 N74-30523
Pseudo-noise test set for communication system evaluation --- test signals
[NASA-CASE-MFS-22671-1] c35 N75-21582
Modulator for tone and binary signals --- phase of modulation of tone and binary signals on carrier waves in communication systems
[NASA-CASE-GSC-11743-1] c32 N75-24981
Receiving and tracking phase modulated signals
[NASA-CASE-MSC-16170-1] c32 N77-12248

TELEMETRY
Fabrication of pressure-telemetry transducers
[NASA-CASE-XNP-09752] c14 N69-21541
Telemetry data unit to form multibit words for use between demodulator and computer
[NASA-CASE-XNP-09225] c09 N69-24333
Development of telemetry system for position location and data acquisition
[NASA-CASE-GSC-10083-1] c30 N71-16090
Telespectrograph for analyzing upper atmosphere by tracking bodies reentering atmosphere at high velocities
[NASA-CASE-XLA-03273] c14 N71-18699
Digitally controlled frequency synthesizer for pulse frequency modulation telemetry systems
[NASA-CASE-XGS-02317] c09 N71-23525
Time division multiplexed telemetry transmitting system controlled by programmed memory
[NASA-CASE-GSC-10131-1] c07 N71-24624
Temperature telemetric transmitter with frequency determining tank circuit for short range transmission
[NASA-CASE-NPO-10649] c07 N71-24840
System designed to reduce time required for obtaining synchronization in data communication with spacecraft utilizing pseudonoise codes
[NASA-CASE-NPO-10214] c10 N71-26577
Zero power telemetry actuated switch for biomedical equipment
[NASA-CASE-ARC-10105] c09 N72-17153
Development and characteristics of telemetry system using computer-accessed circuits and remotely controlled from ground station
[NASA-CASE-NPO-11358] c07 N72-25172
Control and information system for digital telemetry data using analog converter to digitize sensed parameter values
[NASA-CASE-NPO-11016] c08 N72-31226
Characteristics of two channel telemetry system with two data rate channels for high and low data rate communication
[NASA-CASE-NPO-11572] c07 N73-16121
Telemetry and transmission system with programmed sampling and multiplexing

[NASA-CASE-GSC-11388-1] c07 N73-24187
Improved phase lock loop for receiver in multichannel telemetry system with suppressed carrier
[NASA-CASE-NPO-11593-1] c07 N73-28012
Telemetry synchronizer
[NASA-CASE-GSC-11868-1] c17 N76-22245
TELEOPERATORS
Cooperative multiaxis sensor for teleoperation of article manipulating apparatus
[NASA-CASE-NPO-13386-1] c54 N75-27758
TELEPHONY
Digital communication system
[NASA-CASE-MSC-13912-1] c32 N74-30524
TELESCOPES
Pneumatic control of telescopic mirror support system
[NASA-CASE-XLA-03271] c11 N69-24321
Tracking mount for laser telescope employed in tracking large rockets and space vehicles to give information regarding azimuth and elevation
[NASA-CASE-MFS-14017] c14 N71-26627
Development of reflector system for application to line-of-sight pointing and tracking telescopes
[NASA-CASE-NPO-10468] c23 N71-33229
Design and development of light sensing device for controlling orientation of object relative to sun or other light source
[NASA-CASE-NPO-11201] c14 N72-27409
Borescope with adjustable hinged telescoping optical system
[NASA-CASE-MFS-15162] c14 N72-32452
Ritchey-Chretien telescope responsive to images located off telescope optical axis
[NASA-CASE-GSC-11487-1] c14 N73-30393
Servo-controlled intravital microscope system
[NASA-CASE-NPO-13214-1] c35 N75-25123
TELETYPEWRITER SYSTEMS
Teletypewriter video communication system and apparatus
[NASA-CASE-XNP-06611] c07 N71-26102
TELEVISION CAMERAS
Electrically operated rotary shutter for television camera aboard spacecraft
[NASA-CASE-XNP-00637] c14 N70-40273
TV camera output signal control system for digital spacecraft communication
[NASA-CASE-XNP-01472] c14 N70-41807
Solid state television camera system consisting of monolithic semiconductor mosaic sensor and molecular digital readout systems
[NASA-CASE-XMF-06092] c07 N71-24612
Color television system for allowing monochrome television camera to produce color pictures
[NASA-CASE-MSC-12146-1] c07 N72-17109
Optical conversion method
[NASA-CASE-MSC-12618-1] c74 N76-18917
TV fatigue crack monitoring system
[NASA-CASE-LAR-11490-1] c35 N76-28530
TELEVISION EQUIPMENT
Conversion system for transforming slow scan rate of Apollo TV camera on moon to fast scan of commercial TV
[NASA-CASE-XMS-07168] c07 N71-11300
Automatic closed circuit television arc guidance control for welding joints
[NASA-CASE-MFS-13046] c07 N71-19433
Color television system utilizing single gun current sensitive color cathode ray tube
[NASA-CASE-ERC-10098] c09 N71-28618
Television multiplexing system, using single crystal controlled clock for signal synchronization
[NASA-CASE-KSC-10654-1] c07 N73-30115
Rotating raster generator
[NASA-CASE-FRC-10071-1] c32 N74-20813
Auditory display for the blind
[NASA-CASE-HQN-10832-1] c71 N74-21014
Spacecraft docking and alignment system --- using television camera system
[NASA-CASE-MSC-12559-1] c18 N76-14186
System for producing chroma signals
[NASA-CASE-MSC-14683-1] c74 N77-18893
TELEVISION RECEIVERS
Improvement in receiver of narrow bandwidth television system
[NASA-CASE-XMS-06740-1] c07 N71-26579
TELEVISION SYSTEMS
Electron beam scanning system for improved image definition and reduced power requirements for video signal transmission
[NASA-CASE-ERC-10552] c09 N71-12539
Development and characteristics of burst synchronization detection system
[NASA-CASE-XMS-05605-1] c10 N71-19468
Improvements in receiver of narrow bandwidth television system
[NASA-CASE-XMS-06740-1] c07 N71-26579
Stereoscopic television system, including projecting pair of binocular images
[NASA-CASE-ARC-10160-1] c23 N72-27728
TELEVISION TRANSMISSION
Television simulation for aircraft and space flight
[NASA-CASE-XFR-03107] c09 N71-19449
Automatic frequency control for FM transmitter
[NASA-CASE-MFS-21540-1] c32 N74-19790
Television noise reduction device
[NASA-CASE-MSC-12607-1] c32 N75-21485
TEMPER (METALLURGY)
Method of producing complex aluminum alloy parts of high temper, and products thereof
[NASA-CASE-MSC-19693-1] c26 N76-29401
TEMPERATURE
Fluorinated esters of polycarboxylic acid and lubricating compositions for use at extreme temperature
[NASA-CASE-MFS-21040-1] c06 N73-30098
TEMPERATURE COMPENSATION
Temperature compensated solid state differential amplifier with application in bioinstrumentation circuits
[NASA-CASE-XAC-00435] c09 N70-35440
Variable frequency magnetic coupled multivibrator with temperature compensated frequency control circuit
[NASA-CASE-XGS-00458] c09 N70-38604
Matched thermistors for microwave power meters with compensation for temperature changes
[NASA-CASE-NPO-10348] c10 N71-12554
Development of temperature compensated thrust measuring gage for measuring forces as function of time in environment with varying temperature
[NASA-CASE-XGS-02319] c14 N71-22965
Variable frequency subcarrier oscillator with temperature compensation
[NASA-CASE-XNP-03916] c09 N71-28810
Omnidirectional liquid filled accelerometer design with liquid and housing temperature compensation
[NASA-CASE-HQN-10780] c14 N71-30265
Development of thermal compensating structure which maintains uniform length with changes in temperature
[NASA-CASE-MFS-20433] c15 N72-28496
Development of temperature compensated light source with components and circuitry for maintaining luminous intensity independent of temperature variations
[NASA-CASE-ARC-10467-1] c09 N73-14214
Opto-mechanical subsystem with temperature compensation through isothemal design
[NASA-CASE-GSC-12059-1] c35 N77-27366
TEMPERATURE CONTROL
Method and apparatus using temperature control for wavelength tuning of liquid lasers
[NASA-CASE-ERC-10187] c16 N69-31343
Ultraviolet radiation resistant alkali-metal silicate coatings for temperature control of spacecraft
[NASA-CASE-XGS-04119] c18 N69-39979
Passive thermal control coating on aluminum foil laminate for inflatable spacecraft surfaces
[NASA-CASE-XLA-01291] c33 N70-36617
Thermal switch for transferring excess heat from one region to another heat dissipating one
[NASA-CASE-XNP-00463] c33 N70-36847
Sandwich panel structure for removing heat from shield between hot and cold areas
[NASA-CASE-XLA-00349] c33 N70-37979
Device for adding water to high velocity exhaust jets to reduce velocity, noise, and temperature
[NASA-CASE-XMF-01813] c28 N70-41582
Modifying existing solar cells for temperature control

[NASA-CASE-NPO-10109] c03 N71-11049
Temperature sensor warning system for pneumatic tires of aircraft and ground vehicles
[NASA-CASE-XLA-01926] c14 N71-15620
Intermittent type silica gel adsorption refrigerator for providing temperature control for spacecraft components
[NASA-CASE-XNP-00920] c15 N71-15906
Using heat control unit to preheat circulating fluid
[NASA-CASE-XNF-04237] c33 N71-16278
Mounting apparatus for temperature control system
[NASA-CASE-NPO-10138] c33 N71-16357
Design and development of device for cooling inner conductor of coaxial cable
[NASA-CASE-XNP-05775] c09 N71-20445
Thermal control wall panel with application to spacecraft cabins
[NASA-CASE-XLA-01243] c33 N71-22792
Development and characteristics of thermal sensitive panel for controlling ratio of solar absorptivity to surface emissivity for space vehicle temperature control
[NASA-CASE-XLA-07728] c33 N71-22890
Method and apparatus for adjusting thermal conductance in electronic components for space use
[NASA-CASE-XNP-05524] c33 N71-24876
Device for rapid adjustment and maintenance of temperature in electronic components
[NASA-CASE-XNP-02792] c14 N71-28958
Automatic control device for regulating inlet water temperature of liquid cooled spacesuit
[NASA-CASE-MSC-13917-1] c05 N72-15098
Development of method for controlling vapor content of gas
[NASA-CASE-NPO-10633] c03 N72-28025
Atomic hydrogen maser with bulb temperature control by output frequency difference signal for wall shift elimination
[NASA-CASE-HQN-10654-1] c16 N73-13489
Design and development of thermomechanical pump for transmitting warming fluid through fluid circuit to control temperature of spacecraft instrumentation
[NASA-CASE-NPO-11417] c15 N73-24513
Automatic temperature control for liquid cooled space suit
[NASA-CASE-ARC-10599-1] c05 N73-26071
Temperature control system comprised of wheatstone bridge with RC circuit
[NASA-CASE-NPO-11304] c14 N73-26430
Development and characteristics of thermal control system for maintaining constant temperature within spacecraft module with wide variations of component heat transfer
[NASA-CASE-GSC-11018-1] c31 N73-30829
Apparatus for controlling the temperature of balloon-borne equipment
[NASA-CASE-GSC-11620-1] c34 N74-23039
Self-regulating proportionally controlled heating apparatus and technique
[NASA-CASE-GSC-11752-1] c77 N75-20140
Rocket chamber and method of making
[NASA-CASE-LEW-11118-2] c20 N76-14191
Thermostatically controlled non-tracking type solar energy concentrator
[NASA-CASE-NPO-13497-1] c44 N76-14602
Magnetic heat pumping
[NASA-CASE-LEW-12508-2] c34 N77-32435

TEMPERATURE DISTRIBUTION

Oven for heat treating heat shields
[NASA-CASE-XMS-04318] c15 N69-27871

TEMPERATURE EFFECTS

Shock and vibration damping device using temperature sensitive solid amorphous polymers
[NASA-CASE-XAC-11225] c14 N69-27486
Differential pressure cell insensitive to changes in ambient temperature and extreme overload
[NASA-CASE-XAC-00042] c14 N70-34816
Fluid flow control valve for regulating fluids in molecular quantities
[NASA-CASE-XLE-00703] c15 N71-15967
Describing device for changing flow rate of fluid in duct in response to change in temperature
[NASA-CASE-MFS-14259] c15 N71-19213
Temperature sensitive magnetometer with pulsating thermally cycled magnetic core
[NASA-CASE-XAC-03740] c14 N71-26135
Development of system with electrical properties which vary with changes in temperature for use with feedback loop in operational amplifier circuit
[NASA-CASE-MSC-13276-1] c14 N71-27058

TEMPERATURE GRADIENTS

Differential thermopile for measuring cooling water temperature rise
[NASA-CASE-XAC-00812] c14 N71-15598
Development of temperature compensated light source with components and circuitry for maintaining luminous intensity independent of temperature variations
[NASA-CASE-ARC-10467-1] c09 N73-14214
Method for compression molding of thermosetting plastics utilizing a temperature gradient across the plastic to cure the article
[NASA-CASE-LAR-10489-1] c31 N74-18124
Method and apparatus for checking fire detectors
[NASA-CASE-GSC-11600-1] c35 N74-21019

TEMPERATURE MEASUREMENT

Filter arrangement for controlling light intensity in motion picture camera used in optical pyrometry
[NASA-CASE-XLA-00062] c14 N70-33254
Development of apparatus for measuring thermal conductivity
[NASA-CASE-XGS-01052] c14 N71-15992
Design and characteristics of thermocouples consisting of flexible tape for improved attachment to temperature source
[NASA-CASE-XNP-01659] c14 N71-23039
Black body cavity radiometer with thermal resistance wire bridge circuit
[NASA-CASE-XNP-08961] c14 N71-24809
Design, development, and characteristics of pressure and temperature sensor operating immersed in fluid flow
[NASA-CASE-LEW-10281-1] c14 N72-17327
Development of thermocouple instrument for measuring temperature of wall heated by flowing fluid without disturbing boundary layer
[NASA-CASE-XLE-05230] c14 N72-27410
Thermocouple apparatus for measuring wall temperatures in regeneratively cooled rocket engines having thin walled cooling passages
[NASA-CASE-XLE-05230-2] c14 N73-13417
Thermochromic compositions for detecting heat levels in electronic circuits and devices
[NASA-CASE-NPO-10764-1] c14 N73-14428
Method of fabricating an article with cavities --- with thin bottom walls
[NASA-CASE-LAR-10318-1] c31 N74-18089
Method for determining thermo-physical properties of specimens --- photographic recording of changes in thin film phase-change temperature indicating material in wind tunnel
[NASA-CASE-LAR-11053-1] c25 N74-18551
Wind sensor
[NASA-CASE-NPO-13462-1] c35 N76-24524
Miniature ingestible telemeter devices to measure deep-body temperature
[NASA-CASE-ARC-10583-1] c52 N76-29894

TEMPERATURE MEASURING INSTRUMENTS

Temperature sensor warning system for pneumatic tires of aircraft and ground vehicles
[NASA-CASE-XLA-01926] c14 N71-15620
Electric network for monitoring temperatures, detecting critical temperatures, and indicating critical time duration
[NASA-CASE-XNP-01097] c10 N71-16058
Electromagnetic energy detection by thermal sensor with vibrating electrode
[NASA-CASE-XAC-10768] c09 N71-18830
Input radio frequency circuit for switching type absolute temperature measuring radiometer for noise sources
[NASA-CASE-ERC-11020] c14 N71-26774
High intensity radiant energy pulse source for calibrating heat transfer gages with thermoluminescent shutter activation
[NASA-CASE-ARC-10178-1] c09 N72-17152
Development of flexible thermocouple in form of tape for adaptation to special temperature measuring conditions
[NASA-CASE-LEW-11072-1] c14 N73-24472

Thermocouples of tantalum and rhenium alloys for more stable vacuum-high temperature performance
[NASA-CASE-LEW-12050-1] c35 N77-32454

TEMPERATURE PROBES
Thermally sensitive tuning probe for nullifying detuning effects in microwave cavity resonator of amplifier
[NASA-CASE-XNP-00449] c14 N70-35220
Design, development, and characteristics of pressure and temperature sensor operating immersed in fluid flow
[NASA-CASE-LEW-10281-1] c14 N72-17327

TEMPERATURE SENSORS
Miniaturized radiometer for detecting low level thermal radiation
[NASA-CASE-XLA-04556] c14 N69-27484
Mounting fixture for supporting thermobulb in pipeline
[NASA-CASE-NPO-10158] c33 N71-16356
Mounting apparatus for temperature control system
[NASA-CASE-NPO-10138] c33 N71-16357
Heat flux sensor adapted for mounting on aircraft or spacecraft to measure aerodynamic heat flux inflow to aircraft skin
[NASA-CASE-XFR-03802] c33 N71-23085
Temperature telemetric transmitter with frequency determining tank circuit for short range transmission
[NASA-CASE-NPO-10649] c07 N71-24840
Black body radiometer design with temperature sensing and cavity heat source cone winding
[NASA-CASE-XNP-09701] c14 N71-26475
Thin film capacitive bolometer and capacitance temperature interchange sensor
[NASA-CASE-NPO-10607] c09 N71-27232
Development of thin film temperature sensor from TaO
[NASA-CASE-NPO-11775] c26 N72-28761
Heat detection and compositions and devices therefor
[NASA-CASE-NPO-10764-2] c35 N75-25122

TEMPLATES
Precision surface cutter for screen circuit negatives and other microcircuits
[NASA-CASE-XLA-09843] c15 N72-27485

TENSILE STRENGTH
Method for producing fiber reinforced metallic composites with high strength and elasticity over wide temperature range
[NASA-CASE-XLE-00231] c17 N70-38198
Composites reinforced with short metal fibers or whiskers and having high tensile strength
[NASA-CASE-XLE-00228] c17 N70-38490
Apparatus for tensile strength testing of specimen by pressurized fluid
[NASA-CASE-XKS-06250] c14 N71-15600
Process for fiberizing ceramic materials with high fusion temperatures and tensile strength
[NASA-CASE-XNP-00597] c18 N71-23088
Tensile strength testing device having pulley guides for exerting multiple forces on test specimen
[NASA-CASE-XNP-05634] c15 N71-24834
Device for use in loading tension members --- characterized by elongated elastic body
[NASA-CASE-MFS-21488-1] c14 N75-24794

TENSILE STRESS
Method for testing rocket nozzles at high tensile stress levels
[NASA-CASE-NPO-10311] c31 N71-15643
Device for measuring tensile forces
[NASA-CASE-MFS-21728-1] c35 N74-27865
Solid medium thermal engine
[NASA-CASE-ARC-10461-1] c44 N74-33379

TENSILE TEST
Tensile strength testing device having pulley guides for exerting multiple forces on test specimen
[NASA-CASE-XNP-05634] c15 N71-24834

TENSILE TESTS
Apparatus for tensile strength testing of specimen by pressurized fluid
[NASA-CASE-XKS-06250] c14 N71-15600
Apparatus for measuring load on cable under static or dynamic conditions comprising pulleys pivoting structure against restraint of tension strap
[NASA-CASE-XMS-04545] c15 N71-22878
Method and apparatus for remote measurement of displacement of marks on specimen undergoing tensile test
[NASA-CASE-NPO-10778] c14 N72-11364
Anti-buckling fatigue test assembly --- for subjecting metal specimen to tensile and compressive loads at constant temperature
[NASA-CASE-LAR-10426-1] c09 N74-19528
Method and apparatus for tensile testing of metal foil
[NASA-CASE-LAR-10208-1] c35 N76-18400
Device for tensioning test specimens within an hermetically sealed chamber
[NASA-CASE-MFS-23281-1] c35 N77-22450

TENSION
Meter for use in detecting tension in straps having predetermined elastic characteristics
[NASA-CASE-MFS-22189-1] c35 N75-19615

TERMINAL GUIDANCE
Data processing and display system for terminal guidance of X-15 aircraft
[NASA-CASE-XFR-00756] c02 N71-13421
Terminal guidance system --- for guiding aircraft into preselected altitude and/or heading at terminal point
[NASA-CASE-FRC-10049-1] c04 N74-13420

TERRAIN
Vertically descending flight vehicle landing gear for rough terrain
[NASA-CASE-XMF-01174] c02 N70-41589

TEST CHAMBERS
System for continuous monitoring of exhalations, weighing, and cage cleaning for animal exposed to controlled atmosphere for toxic study
[NASA-CASE-XAC-05333] c11 N71-22875
Multisample test chamber for exposing materials to X rays, temperature change, and gaseous conditions and determination of material effects
[NASA-CASE-XMS-02930] c11 N71-23042
Flammability test chamber for testing materials in certain predetermined environments
[NASA-CASE-KSC-10126] c11 N71-24985
Pressure seals suitable for use in environmental test chambers
[NASA-CASE-NPO-10796] c15 N71-27068
Test chamber for determining decomposition and autoignition of materials used in spacecraft under controlled environmental conditions
[NASA-CASE-KSC-10198] c11 N71-28629
Test chambers with orifice and helium mass spectrometer for detecting leak rate of encapsulated semiconductor devices
[NASA-CASE-ERC-10150] c14 N71-28992
Method for measuring biaxial stress in a body subjected to stress inducing loads
[NASA-CASE-MFS-23299-1] c39 N77-28511

TEST EQUIPMENT
Equipment for testing of ground station ranging equipment and spacecraft transponders
[NASA-CASE-XMS-05454-1] c07 N71-12391
Apparatus for tensile strength testing of specimen by pressurized fluid
[NASA-CASE-XKS-06250] c14 N71-15600
Development of black-body source calibration furnace
[NASA-CASE-XLE-01399] c33 N71-15625
Design and characteristics of thermocouples consisting of flexible tape for improved attachment to temperature source
[NASA-CASE-XNP-01659] c14 N71-23039
Automatic controlled thermal fatigue testing apparatus
[NASA-CASE-XLA-02059] c33 N71-24276
Development and characteristics of electric circuitry for detecting electrical pulses rise time and amplitude
[NASA-CASE-XMF-08804] c09 N71-24717
Automated ball rebound resilience test equipment for determining viscoelastic properties of polymers
[NASA-CASE-XLA-08254] c14 N71-26161
Portable equipment for validating C band launch pad antennas and transmission lines used for spacecraft checkout
[NASA-CASE-XKS-10543] c07 N71-26292
Acoustic vibration test apparatus for wiring harnesses
[NASA-CASE-MSC-15158-1] c14 N72-17325

Design and development of two types of atmosphere sampling chambers
[NASA-CASE-NPC-11373] c13 N72-25323
Development of apparatus for testing burning rate and flammability of materials
[NASA-CASE-XMS-09690] c33 N72-25913
Development of apparatus for detonating explosive devices in order to determine forces generated and detonation propagation rate
[NASA-CASE-LAR-10800-1] c33 N72-27959
Equipment for vibration testing of assemblies, components, and other articles
[NASA-CASE-GSC-11302-1] c14 N73-13416
Design and development of test stand system for supporting test items in vacuum chamber
[NASA-CASE-MFS-21362] c11 N73-20267
Development and characteristics of apparatus for measuring intensity of electric field in atmosphere
[NASA-CASE-KSC-10730-1] c14 N73-32318
Test equipment to prevent buckling of small diameter specimens during compression tests
[NASA-CASE-LAR-10440-1] c14 N73-32323
Wind tunnel model and method
[NASA-CASE-LAR-10812-1] c09 N74-17955
Anti-buckling fatigue test assembly --- for subjecting metal specimen to tensile and compressive loads at constant temperature
[NASA-CASE-LAR-10426-1] c09 N74-19528
Method and apparatus for checking fire detectors
[NASA-CASE-GSC-11600-1] c35 N74-21019
Battery testing device --- for testing cells of multiple-cell battery
[NASA-CASE-MFS-20761-1] c44 N74-27519
Signal conditioner test set
[NASA-CASE-KSC-10750-1] c35 N75-12270

Particulate and aerosol detector
[NASA-CASE-LAR-11434-1] c35 N76-22509
High temperature strain gage calibration fixture
[NASA-CASE-LAR-11500-1] c35 N76-24523
Method and means for testing a glancing-incidence mirror system --- for X-ray telescopes
[NASA-CASE-MFS-22409-2] c74 N76-26988
Method of and means for testing a tape record/playback system
[NASA-CASE-MFS-22671-2] c35 N77-17426

TEST FACILITIES
Electric propulsion engine test chamber
[NASA-CASE-XLE-00252] c11 N70-34844
Test apparatus for determining mechanical properties of refractory materials at high temperatures in vacuum or inert atmospheres
[NASA-CASE-XLE-00335] c14 N70-35368
Gas analyzer for bi-gaseous mixtures suitable for use in test facilities
[NASA-CASE-XLA-01131] c14 N71-10774
Design and characteristics of device for launching models in wind tunnels without disturbance of air flow
[NASA-CASE-XNP-03578] c11 N71-23030
Design, development, and operation of shock tube with bypass piston tunnel
[NASA-CASE-NPO-12109] c11 N72-22245
TEST STANDS
Automatic balancing device for use on frictionless supported attitude-controlled test platforms
[NASA-CASE-LAR-10774] c10 N71-13545
Micro-pound extended range thrust stand for small rocket engines
[NASA-CASE-GSC-10710-1] c28 N71-27094
TETHERING
Force separation rigid tethering device using cables
[NASA-CASE-XLA-02332] c32 N71-17609
Space expandable tether device for use as passageway between two docked spacecraft
[NASA-CASE-XMS-10993] c15 N71-28936
TETHERLINES
Flexible cable that can be made rigid
[NASA-CASE-MSC-13512-1] c15 N72-22485
Tetherline system for orbiting satellites
[NASA-CASE-MFS-23564-1] c13 N77-11079
TETRAPHENYLS
Chemical synthesis of thermally stable organometallic polymers with divalent metal ion and tetraphenylphosphonitrilic units
[NASA-CASE-HQN-10364] c06 N71-27363
TEXTILES
Non-flammable elastomeric fiber from a fluorinated elastomer and containing an halogenated flame retardant
[NASA-CASE-MSC-14331-1] c27 N76-24405
THERMAL ABSORPTION
Development and characteristics of calorimeter with integral heat sink for maintenance of constant temperature
[NASA-CASE-XNP-04208] c33 N71-29051
THERMAL CONDUCTIVITY
Measuring conductive heat flow and thermal conductivity of laminar gas stream in cylindrical plug to simulate atmospheric reentry
[NASA-CASE-XLE-00266] c14 N70-34156
Development of apparatus for measuring thermal conductivity
[NASA-CASE-XGS-01052] c14 N71-15992
Heated element sensor for fluid flow detection in thermal conductive conduit with adaptive means to determine flow rate and direction
[NASA-CASE-MSC-12084-1] c12 N71-17569
Method and apparatus for adjusting thermal conductance in electronic components for space use
[NASA-CASE-XNP-05524] c33 N71-24876
Thermally conductive polymer for potting electrical components
[NASA-CASE-GSC-11304-1] c06 N72-21105
Electrostatically controlled heat transfer system for conducting thermal energy
[NASA-CASE-NPO-11942-1] c33 N73-32818
THERMAL CONDUCTORS
Thermal conductive, electrically insulated cleavable adhesive connection between electronic module and heat sink
[NASA-CASE-XMS-02087] c09 N70-41717
Solar energy absorber
[NASA-CASE-MFS-22743-1] c44 N76-22657
THERMAL CONTROL COATINGS
Low concentration alkaline solution treatment of aluminum with metal phosphate surface coatings to improve chemical bonding and reduce coating weight
[NASA-CASE-XLA-01995] c18 N71-23047
Binder stabilized zinc oxide pigmented coating for spacecraft thermal control
[NASA-CASE-XNP-07770-2] c18 N71-26772
Inorganic thermal control and solar reflector coatings
[NASA-CASE-MFS-20011] c18 N72-22566
Mercaptan terminated polymer containing sulfonic acid salts of nitrosubstituted aromatic amines for heat and moisture resistant coatings
[NASA-CASE-ARC-10325] c06 N72-25147
Lightweight electrically powered flexible thermal laminate --- made of metal fibers
[NASA-CASE-MSC-12662-1] c24 N75-16635
Refractory porcelain enamel passive control coating for high temperature alloys
[NASA-CASE-MFS-22324-1] c27 N75-27160
Thermal barrier coating system
[NASA-CASE-LEW-12554-1] c24 N76-23359
Particulate and solar radiation stable coating for spacecraft
[NASA-CASE-LAR-10805-2] c34 N77-18382
Method of preparing zinc orthotitanate pigment
[NASA-CASE-MFS-23345-1] c27 N77-30237
THERMAL DEGRADATION
Use of silicon controlled rectifier shorting circuit to protect thermoelectric generator source from thermal destruction
[NASA-CASE-XGS-04808] c03 N69-25146
Electrical failure detector in solid rocket propellant motor insulation against thermal degradation by fuel grain
[NASA-CASE-XNP-03968] c14 N71-27186
THERMAL ENERGY
Direct conversion of thermal energy into electrical energy using crossed electric and magnetic fields
[NASA-CASE-XLE-00212] c03 N70-34134
Concentrator device for controlling direction of solar energy onto energy converters
[NASA-CASE-XLE-01716] c09 N70-40234

Storage stable, thermally activated foaming compositions for erecting and rigidizing mechanisms of thin sheet solar collectors [NASA-CASE-LAR-10373-1] c18 N71-26155
Gaseous core diffusion nuclear reactor for thermal energy generation [NASA-CASE-LEW-10250-1] c22 N71-28759
Electrostatically controlled heat transfer system for conducting thermal energy [NASA-CASE-NPO-11942-1] c33 N73-32818
Solid medium thermal engine [NASA-CASE-ARC-10461-1] c44 N74-33379
Panel for selectively absorbing solar thermal energy and the method of producing said panel [NASA-CASE-MFS-22562-1] c44 N76-14595
Thermal energy storage system --- operating on superheating of liquids [NASA-CASE-MFS-23167-1] c44 N76-31667
A thermal energy transformer [NASA-CASE-NPO-14058-1] c44 N77-30616
Low to high temperature energy conversion system [NASA-CASE-NPO-13510-1] c44 N77-32581

THERMAL EXPANSION
Gas valve operated by thermally expanding and contracting device [NASA-CASE-XLE-00815] c15 N70-35407
Adjustable rigid mount for trihedral mirror formed of alloy with small coefficient of thermal expansion supporting screws and spring-biased plates [NASA-CASE-XNP-08907] c23 N71-29123
Application of spiral, bimetallic strip to create circular motion on mechanical shaft by changing strip temperature [NASA-CASE-NPO-11283] c09 N72-25260
Glass-to-metal seals comprising relatively high expansion metals [NASA-CASE-LEW-10698-1] c37 N74-21063

THERMAL FATIGUE
Automatic controlled thermal fatigue testing apparatus [NASA-CASE-XLA-02059] c33 N71-24276

THERMAL INSULATION
Low thermal loss piping arrangement for moving cryogenic media through double chamber structure [NASA-CASE-XNP-08882] c15 N69-39935
Insulating system for receptacles of liquefied gases using wire cloth for forming frost layer [NASA-CASE-XMF-00341] c15 N70-33323
Unfired-ceramic, highly reflective composite insulation for large launch vehicles [NASA-CASE-XMF-01030] c18 N70-41583
Carbon dioxide purge systems to prevent condensation in spaces between cryogenic fuel tanks and hypersonic vehicle skin [NASA-CASE-XLA-01967] c31 N70-42015
Preparation and characteristics of lightweight refractory insulation [NASA-CASE-XMF-05279] c18 N71-16124
Development of thermal insulation system for wing and control surfaces of hypersonic aircraft and reentry vehicles [NASA-CASE-XLA-00892] c33 N71-17897
Prefabricated multilayered self-evacuating insulation panels using gas with low vapor pressure at cryogenic temperatures for application to storage of cryogens [NASA-CASE-XLE-04222] c23 N71-22881
Light weight plastic foam thermal insulation for cryogenic storage [NASA-CASE-XLE-02647] c18 N71-23658
Development of foam insulation for filament wound cryogenic storage tank [NASA-CASE-XLE-03803] c15 N71-23816
Multilayer insulation panels for cryogenic liquid containers [NASA-CASE-MFS-14023] c33 N71-25351
Double-wall isothermal cylinder containing heat transfer fluid thermal reservoir as spacecraft insulation cover [NASA-CASE-MFS-20355] c33 N71-25353
Structure of fabric layers for micrometeoroid protection garment with capability for eliminating heat shorts for use in manufacturing space suits [NASA-CASE-MSC-12109] c18 N71-26285
Foam insulation thickness measuring and injection device for spacecraft applications [NASA-CASE-MFS-20261] c14 N71-27005
Development of thermal insulation material for insulating liquid hydrogen tanks in spacecraft [NASA-CASE-XMF-05046] c33 N71-28892
Para-benzoquinone dioxime and concentrated mineral acid processed to yield intumescent or fire resistant, heat insulating materials [NASA-CASE-ARC-10304-1] c18 N73-26572
Development and characteristics of thermal control system for maintaining constant temperature within spacecraft module with wide variations of component heat transfer [NASA-CASE-GSC-11018-1] c31 N73-30829
Heater-mixer for stored fluids [NASA-CASE-ARC-10442-1] c35 N74-15093
Intumescent composition, foamed product prepared therewith and process for making same [NASA-CASE-ARC-10304-2] c27 N74-27037
High current electrical lead --- for thermionic converters [NASA-CASE-LEW-10950-1] c33 N74-27683
Structural heat pipe --- for spacecraft wall thermal insulation system [NASA-CASE-GSC-11619-1] c34 N75-12222
Insulation foil and method of making [NASA-CASE-LEW-11484-2] c24 N75-14839
Thermal insulation attaching means [NASA-CASE-MSC-12619-1] c39 N75-21671
Strain arrestor plate for fused silica tile --- bonding of thermal insulation to metallic plates or structural parts [NASA-CASE-MSC-14182-1] c27 N76-14264
Ceramic fiber insulating material and methods of producing same --- product development of foams for thermal insulation [NASA-CASE-MSC-14795-1] c27 N76-15314
Auger attachment method for insulation --- of spacecraft [NASA-CASE-MSC-12615-1] c37 N76-19437
Flexible pile thermal barrier seal [NASA-CASE-MSC-19568-1] c37 N76-23585
Extreme temperature thermal control coating [NASA-CASE-LAR-11756-1] c24 N76-26284
Intumescent-ablator coatings using endothermic fillers [NASA-CASE-ARC-11043-1] c34 N77-14372
Thermal insulation protection means [NASA-CASE-MSC-12737-1] c34 N77-22423
Thermal insulation attaching means --- adhesive bonding of felt vibration isolators under ceramic tiles [NASA-CASE-MSC-12619-2] c16 N77-31237

THERMAL PLASMAS
Apparatus for producing monochromatic light from continuous plasma source [NASA-CASE-XNP-04167-2] c25 N72-24753

THERMAL PROTECTION
Thermoprotective device for balances [NASA-CASE-XAC-00648] c14 N70-40400
Design, development, and characteristics of ablation structures [NASA-CASE-XMS-01816] c33 N71-15623
Development of spacecraft radiator cover [NASA-CASE-MSC-12049] c31 N71-16080
Characteristics of foamed-in-place ceramic refractory insulating material and method of fabrication [NASA-CASE-XGS-02435] c18 N71-22998
Unfired ceramic insulation for protection from radiant heating environments [NASA-CASE-MFS-14253] c33 N71-24858
Development of solid state polymer coating for obtaining thermal balance in spacecraft components [NASA-CASE-XLA-01745] c33 N71-28903
Anodizing method for providing metal surfaces with temperature reducing coatings against flames [NASA-CASE-XLE-00035] c33 N71-29151
Ablative heat shield for protection from aerodynamic heating of reentry spacecraft [NASA-CASE-MSC-12143-1] c33 N72-17947
Flexible fire retardant polyisocyanate modified neoprene foam --- for thermal protective devices [NASA-CASE-ARC-10180-1] c27 N74-12814
Thermal insulation attaching means [NASA-CASE-MSC-12619-1] c39 N75-21671
Reaction cured glass and glass coatings [NASA-CASE-ARC-11051-1] c27 N77-10201

Intumescent coating containing 4,4'-dinitrosulfanilide
[NASA-CASE-ARC-11042-1] c24 N77-11119
THERMAL RADIATION
Miniaturized radiometer for detecting low level thermal radiation
[NASA-CASE-XLA-04556] c14 N69-27484
Temperature sensitive capacitor device for detecting very low intensity infrared radiation
[NASA-CASE-XNP-09750] c14 N69-39937
High temperature source of thermal radiation
[NASA-CASE-XLE-00490] c33 N70-34545
Development and characteristics of thermal radiation shielding of refractory metal foil used for induction furnace
[NASA-CASE-XLE-03432] c33 N71-24145
Black body cavity radiometer with thermal resistance wire bridge circuit
[NASA-CASE-XNP-08961] c14 N71-24809
Development of method for protecting large and oddly shaped areas from radiant and convective heat
[NASA-CASE-XNP-01310] c33 N71-28852
THERMAL REACTORS
Fuel system for thermal nuclear reactor which uses inorganic ion exchanger
[NASA-CASE-LEW-11645-2] c22 N73-28660
Nonequilibrium radiation nuclear reactor
[NASA-CASE-HQN-10841-1] c73 N75-22108
THERMAL RESISTANCE
Single electrical circuit component combining diode, fuse, and blown indicator with elongated tube of heat resistant transparent material
[NASA-CASE-XKS-03381] c09 N71-22796
Polyimide foam for the thermal insulation and fire protection
[NASA-CASE-ARC-10464-1] c27 N74-12812
Dual measurement ablation sensor
[NASA-CASE-LAR-10105-1] c34 N74-15652
Self-regulating proportionally controlled heating apparatus and technique
[NASA-CASE-GSC-11752-1] c77 N75-20140
Heat resistant polymers of oxidized styrylphosphine
[NASA-CASE-MSC-14903-1] c27 N76-28425
THERMAL SHOCK
Development of equipment for measuring thermal shock resistance of thin discs of material
[NASA-CASE-XLE-02024] c14 N71-22964
Thermal shock resistant hafnia ceramic materials
[NASA-CASE-LAR-10894-1] c18 N73-14584
Thermal shock and erosion resistant tantalum carbide ceramic material
[NASA-CASE-LAR-11902-1] c27 N76-23436
THERMAL SIMULATION
Simulating operation of thermopile vacuum gage tube at high and low pressures
[NASA-CASE-XLA-02758] c14 N71-18481
THERMAL STABILITY
Bonded solid lubricant coatings of calcium fluoride and binder for high temperature stability
[NASA-CASE-XMS-00259] c18 N70-36400
Portable environmental control and life support system for astronaut in and out of spacecraft
[NASA-CASE-XMS-09632-1] c05 N71-11203
Chemical synthesis of thermally stable organometallic polymers with divalent metal ion and tetraphenylphosphonitrilic units
[NASA-CASE-HQN-10364] c06 N71-27363
Cermet for nuclear fuel constructed by pressing metal coated ceramic particles in die at temperature to cause bonding of metal coatings, and tested for thermal stability
[NASA-CASE-LEW-10219-1] c18 N71-28729
Ultraviolet and thermally stable polymer compositions
[NASA-CASE-ARC-10592-1] c27 N74-21156
Ultraviolet and thermally stable polymer compositions
[NASA-CASE-ARC-10592-2] c27 N76-32315
THERMAL STRESSES
Multilegged support system for wind tunnel test models subjected to thermal dynamic loading
[NASA-CASE-XLA-01326] c11 N71-21481
Development of device for simulating cyclic thermal loading of flexible materials by application of mechanical stresses and deformations
[NASA-CASE-LAR-10270-1] c32 N72-25877
Apparatus and method for reducing thermal stress in a turbine rotor
[NASA-CASE-LEW-12232-1] c07 N77-18160
THERMIONIC CATHODES
Thermionic cesium diode converter with cavity emitters
[NASA-CASE-NPO-10412] c09 N71-28421
THERMIONIC CONVERTERS
Vacuum thermionic converter with short-circuited triodes and increased electron transmission and conversion efficiency
[NASA-CASE-XLE-01015] c03 N69-39898
Thermionic converter for converting heat energy directly into electrical energy
[NASA-CASE-XLE-01903] c22 N71-23599
Thermionic cesium diode converter with cavity emitters
[NASA-CASE-NPO-10412] c09 N71-28421
Development and characteristics of solar cells with phosphors in cover glass to improve response to solar ultraviolet radiation
[NASA-CASE-ARC-10050] c03 N71-33409
Reactor heated in-core diodes for energy conversion
[NASA-CASE-NPO-10542] c09 N72-27228
High current electrical lead --- for thermionic converters
[NASA-CASE-LEW-10950-1] c33 N74-27683
Electric power generation system directory from laser power
[NASA-CASE-NPO-13308-1] c36 N75-30524
High temperature resistant cermet and ceramic compositions --- for use in thermionic converters or diodes
[NASA-CASE-NPO-13690-1] c27 N76-13294
Nuclear thermionic converter --- tungsten-thorium oxide rods
[NASA-CASE-NPO-13121-1] c73 N77-18891
Cesium thermionic converters having lanthanum hexaboride electrodes
[NASA-CASE-LEW-12038-2] c44 N77-32595
THERMIONIC DIODES
Electric power system utilizing thermionic plasma diodes in parallel and heat pipes as cathodes
[NASA-CASE-XNP-05843] c03 N71-11055
Thermionic diode switch for use in high temperature region to chop current from dc source
[NASA-CASE-NPO-10404] c03 N71-12255
Micromicroampere current measuring circuit, with two subminiature thermionic diodes with filament cathodes
[NASA-CASE-XNP-00384] c09 N71-13530
Electric power system with thermionic diodes and circulatory liquid metal coolant lines
[NASA-CASE-MFS-14114] c33 N71-27862
Reactor heated in-core diodes for energy conversion
[NASA-CASE-NPO-10542] c09 N72-27228
High temperature resistant cermet and ceramic compositions --- for use in thermionic converters or diodes
[NASA-CASE-NPO-13690-1] c27 N76-13294
THERMIONIC EMITTERS
Oxygen-doped tantalum emitter for thermionic devices such as cesium vapor diodes
[NASA-CASE-NPO-11138] c03 N70-34646
THERMIONIC POWER GENERATION
Control for nuclear thermionic power source --- power supply circuits, energy policy
[NASA-CASE-NPO-13114-2] c44 N76-15573
THERMISTORS
Matched thermistors for microwave power meters with compensation for temperature changes
[NASA-CASE-NPO-10348] c10 N71-12554
Thermistor holder for skin temperature measurements
[NASA-CASE-ARC-10855-1] c52 N77-10780
THERMOCHROMATIC MATERIALS
Thermochromic compositions for detecting heat levels in electronic circuits and devices
[NASA-CASE-NPO-10764-1] c14 N73-14428
Heat detection and compositions and devices therefor
[NASA-CASE-NPO-10764-2] c35 N75-25122

THERMOCOUPLE PYROMETERS
Dual measurement ablation sensor
[NASA-CASE-LAR-10105-1] c34 N74-15652
THERMOCOUPLES
Heat flux sensor assembly with proviso for heat shield to reduce radiative transfer between sensor elements
[NASA-CASE-XMS-05909-1] c14 N69-27459
Gas cooled high temperature thermocouple
[NASA-CASE-XLE-09475-1] c33 N71-15568
Control of fusion welding through use of thermocouple wire
[NASA-CASE-MFS-06074] c15 N71-20393
Heat sensing instrument, using thermocouple junction connected under heavy conducting material
[NASA-CASE-XLA-01551] c14 N71-22989
Design and characteristics of thermocouples consisting of flexible tape for improved attachment to temperature source
[NASA-CASE-XNP-01659] c14 N71-23039
Mixed liquid and vapor phase analyzer design with thermocouples for relative heat transfer measurement
[NASA-CASE-NPO-10691] c14 N71-26199
Development of thermocouple instrument for measuring temperature of wall heated by flowing fluid without disturbing boundary layer
[NASA-CASE-XLE-05230] c14 N72-27410
Thermocouple apparatus for measuring wall temperatures in regeneratively cooled rocket engines having thin walled cooling passages
[NASA-CASE-XLE-05230-2] c14 N73-13417
Development of flexible thermocouple in form of tape for adaptation to special temperature measuring conditions
[NASA-CASE-LEW-11072-1] c14 N73-24472
Thermocouple tape --- developed from thermoelectrically different metals
[NASA-CASE-LEW-11072-2] c35 N76-15434
Thermocouples of molybdenum and iridium alloys for more stable vacuum-high temperature performance
[NASA-CASE-LEW-12174-1] c35 N76-19407
Thermocouple installation
[NASA-CASE-NPO-13540-1] c35 N77-14409
Thermocouples of tantalum and rhenium alloys for more stable vacuum-high temperature performance
[NASA-CASE-LEW-12050-1] c35 N77-32454
THERMODYNAMIC PROPERTIES
Development of equipment for measuring thermal shock resistance of thin discs of material
[NASA-CASE-XLE-02024] c14 N71-22964
Characteristics of foamed-in-place ceramic refractory insulating material and method of fabrication
[NASA-CASE-XGS-02435] c18 N71-22998
Operating properties of superconducting magnet in vacuum environment
[NASA-CASE-XNP-06503] c23 N71-29049
Cobalt-tungsten alloys with superior strength at elevated temperatures
[NASA-CASE-LEW-10436-1] c17 N73-32415
THERMOELECTRIC GENERATORS
Use of silicon controlled rectifier shorting circuit to protect thermoelectric generator source from thermal destruction
[NASA-CASE-XGS-04808] c03 N69-25146
Procedure for segmenting lead telluride and silicon germanium thermoelectric elements to obtain composite elements effective over wide temperature range
[NASA-CASE-XGS-05718] c26 N71-16037
Low weight, integrated thermoelectric generator/antenna combination for spacecraft
[NASA-CASE-XER-09521] c09 N72-12136
Thermally cascaded thermoelectric generator with radioisotopic heat source
[NASA-CASE-NPO-10753] c03 N72-26031
THERMOELECTRIC MATERIALS
Bonding method for improving contact between lead telluride thermoelectric elements and tungsten electrodes
[NASA-CASE-XGS-04554] c15 N69-39786
Procedure for segmenting lead telluride and silicon germanium thermoelectric elements to obtain composite elements effective over wide temperature range
[NASA-CASE-XGS-05718] c26 N71-16037
THERMOELECTRIC POWER GENERATION
Thermoelectric power conversion by liquid metal flowing through magnetic field
[NASA-CASE-XNP-00644] c03 N70-36803
Operation method for combined electrolysis device and fuel cell using molten salt to produce power by thermoelectric regeneration mechanism
[NASA-CASE-XLE-01645] c03 N71-20904
Thermoelectric power system --- for spacecraft
[NASA-CASE-MFS-22002-1] c44 N76-16612
THERMOELECTRICITY
Development of flexible thermocouple in form of tape for adaptation to special temperature measuring conditions
[NASA-CASE-LEW-11072-1] c14 N73-24472
Device for measuring thermoelectric properties of materials under high pressure
[NASA-CASE-NPO-11749] c14 N73-28486
THERMOLUMINESCENCE
Method for detecting oxygen in gas by thermoluminescence
[NASA-CASE-LAR-10668-1] c06 N73-16106
A method for aerosol analysis by thermoluminescence
[NASA-CASE-LAR-12046-1] c45 N77-17609
THERMOMAGNETIC EFFECTS
Thermomagnetic recording and magneto-optic playback system having constant intensity laser beam control
[NASA-CASE-NPO-11317-2] c36 N74-13205
THERMOMETERS
Platinum resistance thermometer circuit
[NASA-CASE-MSC-12327-1] c35 N77-27368
THERMOPHYSICAL PROPERTIES
Method for determining thermo-physical properties of specimens --- photographic recording of changes in thin film phase-change temperature indicating material in wind tunnel
[NASA-CASE-LAR-11053-1] c25 N74-18551
Apparatus for determining thermophysical properties of test specimens
[NASA-CASE-LAR-11883-1] c09 N77-27131
THERMOPILES
Differential thermopile for measuring cooling water temperature rise
[NASA-CASE-XAC-00812] c14 N71-15598
Horizon sensor design with digital sampling of spaced radiation-compensated thermopile infrared detectors
[NASA-CASE-XNP-06957] c14 N71-21088
Development of thermopile with sensor surface to receive radiant energy and to provide measurement of energy quantity
[NASA-CASE-NPO-11493] c14 N73-12447
THERMOPLASTIC RESINS
Boron trifluoride coatings for thermoplastic materials
[NASA-CASE-ARC-11057-1] c27 N77-26308
THERMOREGULATION
Thermoregulating with cooling flow pipe network for humans
[NASA-CASE-XMS-10269] c05 N71-24147
THERMOSETTING RESINS
Vacuum method for molding thermosetting compounds used as ablative materials
[NASA-CASE-XLA-01091] c15 N71-10672
Procedure for bonding polytetrafluoroethylene thermal protective sleeves to magnesium alloy conical shell components with different thermal coefficients
[NASA-CASE-XLA-01262] c15 N71-21404
Method for honeycomb panel bonding by thermosetting film adhesive with electrical heat means
[NASA-CASE-XMF-01402] c18 N71-21651
Heat treatment and tooling for forming shapes from thermosetting honeycomb core sheets
[NASA-CASE-NPO-11036] c15 N72-24522
Fluorinated polyurethanes produced by reacting hydroxy terminated perfluoro polyether with diisocyanate
[NASA-CASE-NPO-10767-2] c06 N72-27151
Evacuated displacement compression molding
[NASA-CASE-LAR-10782-1] c31 N74-14133
Method for compression molding of thermosetting plastics utilizing a temperature gradient across the plastic to cure the article
[NASA-CASE-LAR-10489-1] c31 N74-18124

Evacuated, displacement compression mold --- of tubular bodies from thermosetting plastics
[NASA-CASE-LAR-10782-2] c31 N75-13111
THERMOSTATS
Thermal switch for transferring excess heat from one region to another heat dissipating one
[NASA-CASE-XNP-00465] c33 N70-36847
Design and development of linear actuator based on bimetallic spring expansion
[NASA-CASE-NPO-10637] c15 N72-12409
Thermostatically controlled non-tracking type solar energy concentrator
[NASA-CASE-NPO-13497-1] c44 N76-14602
THICK FILMS
Material compositions and processes for developing dielectric thick films used in microcircuit capacitors
[NASA-CASE-LAR-10294-1] c26 N72-28762
THICKNESS
Myocardium wall thickness transducer and measuring method
[NASA-CASE-NPO-13644-1] c52 N76-29895
THIN FILMS
Temperature sensitive capacitor device for detecting very low intensity infrared radiation
[NASA-CASE-XNP-05750] c14 N69-39937
Means and methods of depositing thin films on substrates
[NASA-CASE-XNP-00595] c15 N70-34967
Method of forming thin window drifted silicon charged particle detector
[NASA-CASE-XLE-00808] c24 N71-10560
Describing apparatus used in vacuum deposition of thin film inductive windings for spacecraft microcircuitry
[NASA-CASE-XMF-01667] c15 N71-17647
Describing method for vapor deposition of gallium arsenide films to manganese substrates to provide semiconductor devices with low resistance substrates
[NASA-CASE-XNP-01328] c26 N71-18064
Development of stable electronic amplifier adaptable for monolithic and thin film construction
[NASA-CASE-IGS-02812] c09 N71-19466
Spatter proof evaporant source design for use in vacuum deposition of solid thin films on substrates
[NASA-CASE-XMF-06065] c15 N71-20395
Binding layer of semiconductor particles by electrodeposition
[NASA-CASE-XNP-01959] c26 N71-23043
Device for high vacuum film deposition with electromagnetic ion steering
[NASA-CASE-NPO-10331] c09 N71-26701
Magnetic recording head composed of ferrite core coated with thin film of aluminum-iron-silicon alloy
[NASA-CASE-GSC-10097-1] c08 N71-27210
Thin film capacitive bolometer and capacitance temperature interchange sensor
[NASA-CASE-NPO-10607] c09 N71-27232
Electrical connections for thin film hybird microcircuits
[NASA-CASE-XMS-02182] c10 N71-28783
Single crystal film semiconductor devices
[NASA-CASE-EEC-10222] c09 N72-22199
Waveguide, thin film window and microwave irises
[NASA-CASE-LAR-10513-1] c07 N72-25170
Thin absorbing metallic film for increased visible light transmission
[NASA-CASE-LAR-10836-1] c26 N72-27784
Development of thin film microwave iris installed in microwave waveguide transverse to flow of energy in waveguide
[NASA-CASE-LAR-10511-1] c09 N72-29172
Development of procedure for producing thin transparent films of zinc oxide on transparent refractory substrate
[NASA-CASE-FEC-10019] c15 N73-12487
Process for analysis of strain field of structures subjected to large deformations involving low modulus substrate with thin coating
[NASA-CASE-LAR-10765-1] c32 N73-20740
Dual wavelength system for monitoring film deposition
[NASA-CASE-MFS-20675] c26 N73-26751
Thin film analyzer utilizing holographic techniques
[NASA-CASE-MFS-20823-1] c16 N73-30476
Transparent switchboard which permits optical display devices to be adapted for use in man machine communications
[NASA-CASE-MSC-13746-1] c10 N73-32143
Method for determining thermo-physical properties of specimens --- photographic recording of changes in thin film phase-change temperature indicating material in wind tunnel
[NASA-CASE-LAR-11053-1] c25 N74-18551
Method of preparing water purification membranes --- polymerization of allyl amine as thin films in plasma discharge
[NASA-CASE-ARC-10643-1] c25 N75-12087
System for depositing thin films
[NASA-CASE-MFS-20775-1] c31 N75-12161
Method of producing a storage bulb for an atomic hydrogen maser
[NASA-CASE-NPO-13050-1] c36 N75-15029
Method of forming metal hydride films
[NASA-CASE-LEW-12083-1] c26 N76-18262
Integrated structure vacuum tube
[NASA-CASE-ARC-10445-1] c31 N76-31365
THIN PLATES
Dichroic plate --- as bandpass filters
[NASA-CASE-NPO-13506-1] c35 N76-15435
THIN WALLED SHELLS
Thin walled pressure test vessel using low-melting alloy-filled joint to attach shell to heads
[NASA-CASE-XLE-04677] c15 N71-10577
THIN WALLS
Channel-type shell construction for rocket engines and related configurations
[NASA-CASE-XLE-00144] c28 N70-34860
Sealed separable connection for thin wall metal tube
[NASA-CASE-NPO-10064] c15 N71-17693
Low mass truss structure with elongated thin-walled tubular segments
[NASA-CASE-LAR-10546-1] c11 N72-25287
Development of differential pressure control system using motion of mechanical diaphragms to operate electric switch
[NASA-CASE-MFS-14216] c14 N73-13418
Method of fabricating an article with cavities --- with thin bottom walls
[NASA-CASE-LAR-10318-1] c31 N74-18089
Method of fabricating an object with a thin wall having a precisely shaped slit
[NASA-CASE-LAR-10409-1] c31 N74-21059
THORIUM FLUORIDES
Ultraviolet filter of thorium fluoride and cryolite on quartz base
[NASA-CASE-XNP-02340] c23 N69-24332
THORIUM OXIDES
Nuclear thermionic converter --- tungsten-thorium oxide rods
[NASA-CASE-NPO-13121-1] c73 N77-18891
THREADS
Gage for quality control of sealing surfaces of threaded boss
[NASA-CASE-XMF-04966] c14 N71-17658
Threadless fastener apparatus comprising receiving apertures for plurality of articles, self-locked condition, and capable of using nonmalleable materials in both ends
[NASA-CASE-XFR-05302] c15 N71-23254
THREE DIMENSIONAL MOTION
Solid state controller three axes controller
[NASA-CASE-MSC-12394-1] c08 N74-10942
THRESHOLD GATES
Apparatus with summing network for compression of analog data by decreasing slope threshold sampling
[NASA-CASE-NPO-10769] c08 N72-11171
Radiation hardening of MOS devices by boron --- for stabilizing gate threshold potential
[NASA-CASE-GSC-11425-2] c76 N75-25730
THRESHOLD LOGIC
Silicon controlled rectifier pulse gate amplifier for blocking false gating caused by negative transient voltages
[NASA-CASE-XLA-07497] c09 N71-12514
THRUST AUGMENTATION
Exhaust nozzle with afterburning for generating thrust

[NASA-CASE-XLA-00154] c28 N70-33374
Construction and method of arranging plurality of ion engines to form cluster thereby increasing efficiency and control by decreasing heat radiated to space
[NASA-CASE-XNP-02923] c28 N71-23081
Reversed cowl flap inlet thrust augmentor --- with adjustable airfoil
[NASA-CASE-ARC-10754-1] c07 N75-24736
Thrust augmented spin recovery device
[NASA-CASE-LAR-11970-1] c08 N77-22147

THRUST BEARINGS
Thrust bearing
[NASA-CASE-LEW-11949-1] c37 N76-29588

THRUST CHAMBERS
Rocket chamber leak test fixture using tubular plug
[NASA-CASE-XFR-09479] c14 N69-27503
Supporting and protecting frame structure and plug for empty thrust chamber assembly, handling, and shipping
[NASA-CASE-XMF-00580] c11 N70-35383
Large area-ratio nozzles for rocket motor thrust chambers
[NASA-CASE-XLE-00145] c28 N70-36806
Method for shaping regeneratively cooled rocket motor casing having minimum thickness at each channel cross section
[NASA-CASE-XLE-00409] c28 N71-15658
Regeneratively cooled rocket motor casing with tapered channels to insure minimum thicknesses at each channel cross section for necessary strength requirements
[NASA-CASE-XLE-05689] c28 N71-15659
Rocket engine injector orifice to accommodate changes in density, velocity, and pressure, thereby maintaining constant mass flow rate of propellant into rocket combustion chamber
[NASA-CASE-XLE-03157] c28 N71-24736
Fuel and oxidizer injection head for thrust chamber of reaction engine
[NASA-CASE-NPO-10046] c28 N72-17843
Continuous gas flow control by fluidic proportional thruster system
[NASA-CASE-ARC-10106-1] c28 N72-22769
Radial magnetic field for ion thruster
[NASA-CASE-LEW-10770-1] c28 N72-22770
Thermal flux transfer system for maintaining thrust chamber of operative reaction motor at given temperatures
[NASA-CASE-NPO-12070-1] c28 N73-32606

THRUST CONTROL
Electromechanical actuator and its use in rocket thrust control valve
[NASA-CASE-XNP-05975] c15 N69-23185
Solid propellant rocket vehicle thrust control method and apparatus
[NASA-CASE-XNP-00217] c28 N70-38181
Thrust and attitude control apparatus using jet nozzle in movable canard surface or fin configuration
[NASA-CASE-XLE-03583] c31 N71-17629
Detonation reaction engine comprising outer housing enclosing pair of inner walls for continuous flow
[NASA-CASE-XMF-06926] c28 N71-22983
Low mass ionizing device for use in electric thrust spacecraft engines
[NASA-CASE-XNP-01954] c28 N71-28850
Heated porous plug microthruster for spacecraft reaction jet controlled systems such as fuel flow regulation, propellant disassociation, and heat transfer augmentation
[NASA-CASE-GSC-10640-1] c28 N72-18766
Multi-purpose wind tunnel reaction control model block
[NASA-CASE-MSC-19706-1] c09 N77-19077

THRUST LOADS
Thrust measurement
[NASA-CASE-XMS-05731] c35 N75-29382

THRUST MEASUREMENT
Dynamometer measuring microforce thrust produced by ion engine
[NASA-CASE-XLE-00702] c14 N70-40203
Development of thrust dynamometer for measuring performance of jet and rocket engines
[NASA-CASE-XLE-05260] c14 N71-20429
Development of temperature compensated thrust measuring gage for measuring forces as function of time in environment with varying temperature
[NASA-CASE-XGS-02319] c14 N71-22965
Micro-pound extended range thrust stand for small rocket engines
[NASA-CASE-GSC-10710-1] c28 N71-27094

THRUST VECTOR CONTROL
Thrust vector control by secondary injection of fluid into rocket nozzle flow field to separate exhaust flow
[NASA-CASE-XLE-00208] c28 N70-34294
High velocity guidance and spin stabilization gyro controlled jet reaction system for launch vehicle payloads
[NASA-CASE-XLA-01339] c31 N71-15692
Ion beam deflector system for electronic thrust vector control for ion propulsion yaw, pitch, and roll forces
[NASA-CASE-LEW-10689-1] c28 N71-26173
Tertiary flow injection system for thrust vectoring of propulsive nozzle flow
[NASA-CASE-MFS-20831] c28 N71-29153
Development of thrust control system for application to control of aircraft and spacecraft
[NASA-CASE-MSC-13397-1] c21 N72-25595
Development of vortex fluid amplifier for throttling rocket exhaust
[NASA-CASE-LEW-10374-1] c28 N73-13773
System for improving directional stability on a rocket-propelled vehicle
[NASA-CASE-MFS-21311-1] c20 N76-21275

THRUST-WEIGHT RATIO
Launch pad missile release system with bending moment change rate reduction in thrust distribution structure at liftoff
[NASA-CASE-XMF-03198] c30 N70-40353

THYROID GLAND
Apparatus for producing high purity I-123 --- for thyroid measurement
[NASA-CASE-LEW-10518-3] c31 N74-10476

TILES
Strain arrestor plate for fused silica tile --- bonding of thermal insulation to metallic plates or structural parts
[NASA-CASE-MSC-14182-1] c27 N76-14264

TILT WING AIRCRAFT
An improved free wing for an aircraft
[NASA-CASE-FRC-10092-1] c05 N77-31135

TIME CONSTANT
Variable time constant, wide frequency range smoothing network for noise removal from pulse chains
[NASA-CASE-XGS-01983] c10 N70-41964

TIME DISCRIMINATION
Extra-long monostable multivibrator employing bistable semiconductor switch to allow charging of timing circuit
[NASA-CASE-XGS-00381] c09 N70-34819

TIME DIVISION MULTIPLEXING
Synchronizing apparatus for multi-access satellite time division multiplex system
[NASA-CASE-XGS-05918] c07 N69-39974
Time division multiplexer with magnetic latching relays
[NASA-CASE-XNP-00431] c09 N70-38998
Data processor having multiple sections activated at different times by selective power coupling to sections
[NASA-CASE-XGS-04767] c08 N71-12494
Minimum time delay unit for conventional time multiplexed data compression channels
[NASA-CASE-XNP-08832] c08 N71-12506
Time division relay synchronizer with master sync pulse for activating binary counter to produce signal identifying time slot for station
[NASA-CASE-GSC-10373-1] c07 N71-19773
Sampling circuit for signal processing in multiplex transmission by Fourier analysis
[NASA-CASE-NPO-10388] c07 N71-24622
Time division multiplexed telemetry transmitting system controlled by programmed memory
[NASA-CASE-GSC-10131-1] c07 N71-24624

TIME FUNCTIONS
Cathode ray oscilloscope for analyzing electrical waveforms representing amplitude distribution of time function
[NASA-CASE-XNP-01383] c09 N71-10659

TIME LAG
Closed loop radio communication ranging system to determine distance between moving airborne vehicle and fixed ground station
[NASA-CASE-XNP-01501] c21 N70-41930
Minimum time delay unit for conventional time multiplexed data compression channels
[NASA-CASE-XNP-08832] c08 N71-12506
Apparatus for estimating amplitude and sign of phase difference or time lag between two signals
[NASA-CASE-NPO-11203] c10 N72-20224
Automatic transponder --- measurement of the internal delay time of a transponder
[NASA-CASE-GSC-12075-1] c32 N77-31350
TIME MEASURING INSTRUMENTS
Mechanism for measuring nanosecond time differences between luminous events using streak camera
[NASA-CASE-XLA-01987] c23 N71-23976
TIME OF FLIGHT SPECTROMETERS
Design and characteristics of time of flight mass spectrometer to measure or analyze gases at low pressures and time of flight of single gas molecule
[NASA-CASE-XNP-01056] c14 N71-23041
TIME SERIES ANALYSIS
Device for performing statistical time-series analysis of complex electrical signal waveforms
[NASA-CASE-MSC-12428-1] c10 N73-25240
TIME SHARING
Integrated time shared instrumentation display for aerospace vehicle simulators
[NASA-CASE-XLA-01952] c08 N71-12507
TIME SIGNALS
Monitoring system for signal amplitude ranges over predetermined time interval
[NASA-CASE-XMS-04061-1] c09 N69-39885
Development of method for synchronizing clocks at several ground stations based on signals received from spacecraft or satellites
[NASA-CASE-XNP-08875] c10 N71-23099
Time synchronization system for synchronizing clocks at remote locations with master clock using noise reflected coded signals
[NASA-CASE-NPO-10143] c10 N71-26326
Circuit for measuring wide range of pulse rates by utilizing high capacity counter
[NASA-CASE-XNP-06234] c10 N71-27137
System for generating timing and control signals
[NASA-CASE-NPO-13125-1] c33 N75-19519
TIMING DEVICES
Design and development of synchronous servo loop control system
[NASA-CASE-XNP-03744] c10 N71-20448
Development of method for synchronizing clocks at several ground stations based on signals received from spacecraft or satellites
[NASA-CASE-XNP-08875] c10 N71-23099
Development and characteristics of resettable monostable pulse generator with charge rundown-timing circuit
[NASA-CASE-GSC-11139] c09 N71-27016
Data acquisition and processing system with buffer storage and timing device for magnetic tape recording of PCM data and timing information
[NASA-CASE-NPO-12107] c08 N71-27255
High speed photo-optical time recorder for indicating time at exposure of each frame of high speed movie camera film
[NASA-CASE-KSC-10294] c14 N72-18411
TIRES
Temperature sensor warning system for pneumatic tires of aircraft and ground vehicles
[NASA-CASE-XLA-01926] c14 N71-15620
Resilient wheel design with woven wire tire and abrasive treads for lunar surface vehicles
[NASA-CASE-MFS-13929] c15 N71-27091
TISSUES (BIOLOGY)
Servo-controlled intravital microscope system
[NASA-CASE-NPO-13214-1] c35 N75-25123
Improved tissue macerating instrument --- ophthalmic liquifaction pump
[NASA-CASE-LEW-12668-1] c52 N76-23837
Method and system for in vivo measurement of bone tissue using a two level energy source
[NASA-CASE-MSC-14276-1] c52 N77-14737
System for and method of freezing biological tissue
[NASA-CASE-GSC-12173-1] c52 N77-27693
TITANATES
Vacuum preparation of zinc titanate pigment resistant to loss of reflective properties
[NASA-CASE-MFS-13532] c18 N72-17532
TITANIUM
Joining aluminum to stainless steel by bonding aluminum coatings onto titanium coated stainless steel and brazing aluminum to aluminum/titanium coated steel
[NASA-CASE-MFS-07369] c15 N71-20443
Weld-bonded titanium structures
[NASA-CASE-LAR-11549-1] c37 N77-11397
TITANIUM ALLOYS
Method to prevent stress corrosion cracking in titanium alloys
[NASA-CASE-NPO-10271] c17 N71-16393
Chemical spot tests for identification of titanium and titanium alloys used in aerospace vehicles
[NASA-CASE-LAR-10539-1] c17 N73-12547
TITANIUM OXIDES
Method of preparing zinc orthotitanate pigment
[NASA-CASE-MFS-23345-1] c27 N77-30237
TOLERANCES (MECHANICS)
Mechanism for restraining universal joints to prevent separation while allowing bending, angulation, and lateral offset in any position about axis
[NASA-CASE-XNP-02278] c15 N71-28951
TOOLS
Tool attachment for spreading or moving away loose elements from terminal posts during winding of filamentary elements
[NASA-CASE-XMF-02107] c15 N71-10809
Development of adjustable attitude guide block for setting pins perpendicular to irregular convex work surface
[NASA-CASE-XLA-07911] c15 N71-15571
Hand tool for forming dimples and nipples on end portion of tubes
[NASA-CASE-XMS-06876] c15 N71-21536
Tool for mounting and removing studs with adhesive coated head portion
[NASA-CASE-MFS-20299] c15 N72-11392
Insert facing tool --- manually operated cutting tool for forming studs in honeycomb material
[NASA-CASE-MFS-21485-1] c37 N74-25968
TOOTH DISEASES
Process for preparing calcium phosphate salts for tooth repair
[NASA-CASE-ERC-10338] c04 N72-33072
TORCHES
Computer controlled apparatus for maintaining welding torch angle and velocity during seam tracking
[NASA-CASE-XMF-03287] c15 N71-15607
Development of electric weeding torch with casing on one end to form inert gas shield
[NASA-CASE-XMF-02330] c15 N71-23798
TOROIDS
Flux gate magnetometer with toroidal gating coil and solenoidal output coil for signal modulation or amplification
[NASA-CASE-XGS-01881] c09 N70-40123
TORQUE
Gearing system for eliminating backlash and filtering input torque fluctuations from high inertia load
[NASA-CASE-XGS-04227] c15 N71-21744
Coupling arrangement for isolating torque loads from axial, radial, and bending loads
[NASA-CASE-XLA-04897] c15 N72-22482
TORQUE MOTORS
Low speed phaselock speed control system --- for brushless dc motor
[NASA-CASE-GSC-11127-1] c09 N75-24758
TORQUEMETERS
Remote-reading torquemeter for use where high horsepowers are transmitted at high rotative speeds
[NASA-CASE-XLE-00503] c14 N70-34818
Torquemeter for determining magnitude of torque generated by interaction of magnetic dipole between test specimen and ambient magnetic field
[NASA-CASE-XGS-01013] c14 N71-23725
TORSO
Restraint torso for increased mobility and reduced physiological effects while wearing

pressurized suits
[NASA-CASE-MSC-12397-1] c05 N72-25119
Spacesuit torso closure
[NASA-CASE-ARC-11100-1] c54 N77-25784
TOUCH
Mechanically operated hand which can depress trigger using touch control device
[NASA-CASE-MFS-20413] c15 N72-21463
Measuring method for cutaneous perception using instrument with elongated tubular housing
[NASA-CASE-MSC-13609-1] c05 N72-25122
Prosthetic limb with tactile sensing device
[NASA-CASE-MFS-16570-1] c05 N73-32013
TOWERS
Aerial capsule emergency separation device using jettisonable towers
[NASA-CASE-XLA-00115] c03 N70-33343
TOXICITY AND SAFETY HAZARD
Apparatus for remote handling of materials --- mixing or analyzing dangerous chemicals
[NASA-CASE-LAR-10634-1] c37 N74-18123
TOXICOLOGY
System for continuous monitoring of exhalations, weighing, and cage cleaning for animal exposed to controlled atmosphere for toxic study
[NASA-CASE-XAC-05333] c11 N71-22875
TRACE CONTAMINANTS
Describing crystal oscillator instrument for detecting condensible gas contaminants in vacuum apparatus
[NASA-CASE-NPO-10144] c14 N71-17701
Heated tungsten filter for removing oxygen impurities from cesium
[NASA-CASE-XNP-04262-2] c17 N71-26773
Electric discharge for treatment of trace contaminants
[NASA-CASE-ARC-10975-1] c54 N77-24771
TRACE ELEMENTS
Ion microprobe mass spectrometer with cooled electrode target for analyzing traces of fluids
[NASA-CASE-ERC-10014] c14 N71-28863
Automated system for identifying traces of organic chemical compounds in aqueous solutions
[NASA-CASE-NPO-13063-1] c25 N76-18245
Nulling device for detection of trace gases by NDIR absorption
[NASA-CASE-ARC-10760-1] c25 N76-22323
TRACKING (POSITION)
Sensor consisting of photocells mounted on pyramidical base for improved pointing accuracy of planetary trackers
[NASA-CASE-XNP-04180] c07 N69-39736
Telespectrograph for analyzing upper atmosphere by tracking bodies reentering atmosphere at high velocities
[NASA-CASE-XLA-03273] c14 N71-18699
Laser beam projector for continuous, precise alignment between target, laser generator, and astronomical telescope during tracking
[NASA-CASE-NPO-11087] c23 N71-29125
System and method for tracking a signal source --- employing feedback control
[NASA-CASE-HQN-10880-1] c32 N75-30385
Mount for continuously orienting a collector dish in a system adapted to perform both diurnal and seasonal solar tracking
[NASA-CASE-MFS-23267-1] c35 N77-20401
Sun tracking solar energy collector
[NASA-CASE-NPO-13921-1] c44 N77-24590
TRACKING FILTERS
System for phase locking onto carrier frequency signal located within receiver bandpass
[NASA-CASE-XGS-04994] c09 N69-21543
TRACKING RADAR
Electronic and mechanical scanning control system for monopulse tracking antenna
[NASA-CASE-XGS-05582] c07 N69-27460
Phase locked loop with sideband rejecting properties in continuous wave tracking radar
[NASA-CASE-XNP-02723] c07 N70-41680
Interferometric tuning acquisition and tracking radar antenna system
[NASA-CASE-XMS-09610] c07 N71-24625
Acquisition and tracking system for optical radar
[NASA-CASE-MFS-20125] c16 N72-13437
TRACKING STATIONS
Optical monitor panel consisting of translucent screen with test or meter information projected onto it from rear for application in control rooms of missile launching and tracking stations
[NASA-CASE-XKS-03509] c14 N71-23175
Simultaneous acquisition of tracking data from two stations
[NASA-CASE-NPO-13292-1] c32 N75-15854
TRAFFIC CONTROL
Traffic survey system --- using optical scanners
[NASA-CASE-MFS-22631-1] c66 N76-19888
TRAILING-EDGE FLAPS
Double hinged flap for boundary layer control over trailing edges of wings
[NASA-CASE-XLA-01290] c02 N76-42016
TRAINING SIMULATORS
Low and zero gravity simulator for astronaut training
[NASA-CASE-MFS-10555] c11 N71-19494
Apparatus for training astronaut crews to perform on simulated lunar surface under conditions of lunar gravity
[NASA-CASE-XMS-04798] c11 N71-21474
Kinesthetic control simulator --- for pilot training
[NASA-CASE-LAR-10276-1] c09 N75-15662
TRAJECTORY ANALYSIS
Table structure and rotating magnet system simulating gravitational forces on spacecraft and displaying trajectories between Earth, Venus, and Mercury
[NASA-CASE-XNP-00708] c14 N70-35394
Planetary atmospheric investigation using split trajectory dual flyby mode
[NASA-CASE-XAC-08494] c30 N71-15990
TRAJECTORY CONTROL
Spacecraft trajectory correction propulsion system
[NASA-CASE-XNP-01104] c28 N70-39931
Development of technique for control of free flight rocket vehicles
[NASA-CASE-XLA-00937] c31 N71-17691
Attitude stabilizer for nonguided missile or vehicle with respect to trajectory
[NASA-CASE-ARC-10134] c30 N72-17873
TRANSDUCERS
Fabrication of pressure-telemetry transducers
[NASA-CASE-XNP-09752] c14 N69-21541
Bootstrap unloading circuits for sampling transducer voltage sources without drawing current
[NASA-CASE-XNP-09768] c09 N71-12516
Transducer for measuring deflections from vibrating structures
[NASA-CASE-XLA-03135] c32 N71-16428
Describing device for surveying contour of surface using X-Y plotter and traveling transducer
[NASA-CASE-XLA-08646] c14 N71-17586
Rotary bead dropper and selector for testing micrometeorite transducers
[NASA-CASE-XGS-03304] c09 N71-22988
Development and characteristics of self-calibrating displacement transducer for measuring magnitude and frequency of displacement of bodies
[NASA-CASE-XLA-00781] c09 N71-22999
Transducer frame for use with extensometer to continuously monitor specimen sample
[NASA-CASE-XLA-10322] c15 N72-17452
Split range transducer
[NASA-CASE-XLA-11189] c10 N72-20222
Pulsed excitation voltage circuit for strain gage bridge transducers
[NASA-CASE-FRC-10036] c09 N72-22200
Passive type, magnifying scratch gage, force transducer
[NASA-CASE-LAR-10496-1] c14 N72-22437
Development of electronic detection system for remotely determining number and movement of enemy personnel
[NASA-CASE-ARC-10097-2] c07 N73-25160
Acoustical transducer calibrating system including differential pressure activating device
[NASA-CASE-FRC-10060-1] c14 N73-27379
Demodulator for carrier transducers
[NASA-CASE-HQC-10107-1] c33 N74-17930
LC-oscillator with automatic stabilized amplitude via bias current control --- power supply circuit for transducers
[NASA-CASE-MFS-21698-1] c33 N74-26732

Arterial pulse wave pressure transducer
[NASA-CASE-GSC-11531-1] c52 N74-27566
Diode-quad bridge circuit means
[NASA-CASE-ARC-10364-3] c33 N75-19520
Subminiature insertable force transducer --- including a strain gage to measure forces in muscles
[NASA-CASE-NPO-13423-1] c33 N75-31329
Self-supporting strain transducer
[NASA-CASE-LAR-11263-1] c35 N75-33369
Miniature muscle displacement transducer
[NASA-CASE-NPO-13519-1] c33 N76-19338
Method and apparatus for nondestructive testing of pressure vessels
[NASA-CASE-NPO-12142-1] c38 N76-28563
Myocardium wall thickness transducer and measuring method
[NASA-CASE-NPO-13644-1] c52 N76-29895
Magnetometer --- with an automatic scanning transducer
[NASA-CASE-LAR-11617-2] c35 N77-17430
Apparatus and method for determining the position of a radiant energy source
[NASA-CASE-GSC-12147-1] c35 N77-20410

TRANSFORMERS
Impedance transformation device for signal mixing
[NASA-CASE-XGS-01110] c07 N69-24334
High impedance alternating current sensing transformer device between two bolometers for measuring insertion loss of test component
[NASA-CASE-XNP-01193] c10 N71-16057
Magnetic current regulator for saturable core transformer
[NASA-CASE-ERC-10075] c09 N71-24800
Unsaturating magnetic core transformer design with warning signal for electrical power processing equipment
[NASA-CASE-ERC-10125] c09 N71-24893
Development and characteristics of electronically resettable fuse with saturable core current sensing transformer having two outside legs and center leg
[NASA-CASE-XGS-11177] c09 N71-27001
Development and characteristics of voltage regulator for connection in series with alternating current source and load using three leg, two-window transformer
[NASA-CASE-ERC-10113] c09 N71-27053
Radial heat flux transformer for use in heating and cooling processes
[NASA-CASE-NPO-10828] c33 N72-17948
Current protection equipment for saturable core transformers
[NASA-CASE-ERC-10075-2] c09 N72-22196
Fail-safe multiple transformer circuit configuration
[NASA-CASE-NPO-11078] c09 N72-25262
Banded transformer cores
[NASA-CASE-NPO-11966-1] c33 N74-17928
Solid-state current transformer
[NASA-CASE-MFS-22560-1] c33 N77-14335
Circuit for automatic load sharing in parallel converter modules
[NASA-CASE-NPO-14056-1] c33 N77-32402

TRANSIENT HEATING
Thermocouple installation
[NASA-CASE-NPO-13540-1] c35 N77-14409

TRANSIENT LOADS
Deployable cantilever support for deploying solar cell arrays aboard spacecraft and reducing transient loading
[NASA-CASE-NPO-10883] c31 N72-22874

TRANSISTOR AMPLIFIERS
Overcurrent protecting circuit for push-pull transistor amplifiers
[NASA-CASE-MSC-12033-1] c09 N71-13531
Dual mode solid state power switch
[NASA-CASE-MFS-22880-2] c33 N77-31407

TRANSISTOR CIRCUITS
Low power drain transistor feedback circuit
[NASA-CASE-XGS-04999] c09 N69-24317
Design of transistorized ring counter circuit with special steering and triggering circuits
[NASA-CASE-XGS-03095] c09 N69-27463
RC transistor circuit to indicate each pulse of pulse train and occurrence of nth pulse
[NASA-CASE-XNP-00906] c09 N70-41655
Linear sawtooth voltage wave generator with transistor timing circuit having capacitor and zener diode feedback loops
[NASA-CASE-XMS-01315] c09 N70-41675
Switching circuit with regeneratively connected transistors eliminating power consumption when not in use
[NASA-CASE-XNP-02654] c10 N70-42032
High voltage transistor circuit
[NASA-CASE-XNP-06937] c09 N71-19516
Complementary regenerative transistorized switch circuit employing positive and negative feedback
[NASA-CASE-XGS-02751] c09 N71-23015
Inverter drive circuit for semiconductor switch
[NASA-CASE-LEW-10233] c10 N71-27126
Transistorized circuit for producing multiple slope voltage sweep
[NASA-CASE-XMS-03542] c09 N71-28926
Circuitry for high input impedance video processor with high noise immunity
[NASA-CASE-NPO-10199] c09 N72-17156
Ultra-stable oscillator with complementary transistors
[NASA-CASE-GSC-11513-1] c33 N74-20862
Inrush current limiter
[NASA-CASE-GSC-11789-1] c33 N77-14333
A complementary DMOS-VMOS integrated circuit structure
[NASA-CASE-GSC-12190-1] c33 N77-29403

TRANSISTORS
Power supply with overload protection for series stage transistor
[NASA-CASE-XMS-00913] c10 N71-23543
Solid state circuit for switching alternating current input signal as function of direct current gating transistor
[NASA-CASE-XNP-06505] c10 N71-24799
Broadband distribution amplifier with complementary pair transistor output stages
[NASA-CASE-NPO-10003] c10 N71-26415
Transistorized switching logic circuits with tunnel diodes
[NASA-CASE-GSC-10878-1] c10 N72-22236
Inverted geometry transistor for use with monolithic integrated circuit
[NASA-CASE-ARC-10330-1] c09 N73-32112
Four phase logic systems --- including integrated microcircuits
[NASA-CASE-MSC-14240-1] c33 N75-14957

TRANSITION FLOW
Ablation article and surface for analyzing flow transition on ablative surface
[NASA-CASE-LAR-10439-1] c33 N73-27796

TRANSITION TEMPERATURE
A method of preparing aromatic polyimides having uniquely low softening temperatures
[NASA-CASE-LAR-11828-1] c23 N75-29181

TRANSLATIONAL MOTION
Centrifuge mounted motion simulator with elevator mechanism
[NASA-CASE-XAC-00399] c11 N70-34815
Development and characteristics of translating horizontal tail assembly for supersonic aircraft
[NASA-CASE-XLA-08801-1] c02 N71-11043
Semilinear bearing comprising two rows of roller bearings separated by spherical bearings and permitting rotational and translational movement
[NASA-CASE-XLA-02809] c15 N71-22982
Positioning mechanism for converting translatory motion into rotary motion
[NASA-CASE-NPO-10679] c15 N72-21462

TRANSMISSION EFFICIENCY
Microwave power transmission system wherein level of transmitted power is controlled by reflections from receiver
[NASA-CASE-MFS-21470-1] c44 N74-19870
Linear phase demodulator including a phase locked loop with auxiliary feedback loop
[NASA-CASE-GSC-12018-1] c33 N77-14334

TRANSMISSION LINES
Portable equipment for validating C band launch pad antennas and transmission lines used for spacecraft checkout
[NASA-CASE-XKS-10543] c07 N71-26292
Collapsible antenna boom and coaxial transmission line having inflatable inner tube
[NASA-CASE-MFS-20068] c07 N71-27191
Phase modulator with tuned variable length electrical lines including coupling and varactor diode circuits
[NASA-CASE-MSC-13201-1] c07 N71-28429

Shielded flat conductor cable of ribbonlike wires laminates in thin flexible insulation [NASA-CASE-MFS-13687-2] c09 N72-22198
Development of phase control coupling for use with phased array antenna [NASA-CASE-ERC-10285] c10 N73-16206
Phase protection system for ac power lines [NASA-CASE-MSC-17832-1] c33 N74-14956
System for stabilizing cable phase delay utilizing a coaxial cable under pressure [NASA-CASE-NPO-13138-1] c33 N74-17927

TRANSMITTANCE
Transmitting and reflecting diffuser [NASA-CASE-LAR-10385-3] c23 N73-32538

TRANSMITTER RECEIVERS
Low weight, integrated thermoelectric generator/antenna combination for spacecraft [NASA-CASE-XER-09521] c09 N72-12136
Location identification system with ground based transmitter and aircraft borne receiver/decoder [NASA-CASE-ERC-10324] c07 N72-25173
Automatic vehicle location system [NASA-CASE-NPO-11850-1] c32 N74-12912
Digital communication system [NASA-CASE-MSC-13912-1] c32 N74-30524
Redundant RF system for space applications [NASA-CASE-NPO-13955-1] c32 N77-28358

TRANSMITTERS
Temperature telemetric transmitter with frequency determining tank circuit for short range transmission [NASA-CASE-NPO-10649] c07 N71-24840
Multicarrier communications system for transmitting modulated signals from single transmitter [NASA-CASE-NPO-11548] c07 N73-26118
Miniature multichannel biotelemeter system [NASA-CASE-NPO-13065-1] c52 N74-26625
Digital transmitter for data bus communications system [NASA-CASE-MSC-14558-1] c32 N75-21486

TRANSONIC SPEED
Construction of leading edges of surfaces for aerial vehicles performing from subsonic to above transonic speeds [NASA-CASE-XLA-01486] c01 N71-23497

TRANSONIC WIND TUNNELS
Wind tunnel test section for simulating high Reynolds number over transonic speed range [NASA-CASE-MFS-20509] c11 N72-17183

TRANSPARENCE
Transparent polycarbonate resin, shell helmet and latch design for high altitude and space flight [NASA-CASE-MMS-04935] c05 N71-11190
Method and apparatus for producing an image from a transparent object [NASA-CASE-GSC-11989-1] c74 N77-28932

TRANSPIRATION
Rocket chamber and method of making [NASA-CASE-LEW-11118-2] c20 N76-14191

TRANSPONDERS
Equipment for testing of ground station ranging equipment and spacecraft transponders [NASA-CASE-MMS-05454-1] c07 N71-12391
Spacecraft transponder and ground station radar system for mapping planetary surfaces [NASA-CASE-NPO-11001] c07 N72-21118
Loop transponder for regenerating code of mu-type ranging system [NASA-CASE-NPO-11707] c07 N73-25161
Automatic vehicle location system [NASA-CASE-NPO-11850-1] c32 N74-12912
Simultaneous acquisition of tracking data from two stations [NASA-CASE-NPO-13292-1] c32 N75-15854
Automatic transponder --- measurement of the internal delay time of a transponder [NASA-CASE-GSC-12075-1] c32 N77-31350

TRANSPORTATION
Supporting and protecting frame structure and plug for empty thrust chamber assembly, handling, and shipping [NASA-CASE-XMF-00580] c11 N70-35383

TRAPS
Deep trap, laser activated image converting system [NASA-CASE-NPO-13131-1] c36 N75-19652

TRAVELING WAVE AMPLIFIERS
Serrodyne traveling wave tube reentrant amplifier for synchronous communication satellites operating at microwave frequencies [NASA-CASE-XGS-01022] c07 N71-16088
Traveling wave solid state amplifier utilizing a semiconductor with negative differential mobility [NASA-CASE-HQN-10069] c33 N75-27251

TRAVELING WAVE MASERS
Design of folded traveling wave maser structure [NASA-CASE-XNP-05219] c16 N71-15550
Comb type traveling wave maser amplifier for improved high gain broadband output [NASA-CASE-NPO-10548] c16 N71-24831
Independent gain and bandwidth control of a traveling wave maser [NASA-CASE-NPO-13801-1] c36 N76-31514

TRAVELING WAVE TUBES
Segmented superconducting magnet producing staggered magnetic field and suitable for broadband traveling wave masers [NASA-CASE-XGS-10518] c16 N71-28554
Traveling wave tube circuit [NASA-CASE-LEW-12013-1] c33 N77-17360

TRAVELING WAVES
Traveling wave maser for operation in 7 to 20 GHz frequency range [NASA-CASE-NPO-11437] c16 N72-28521

TRAYS
Automatic multiple-sample applicator and electrophoresis apparatus [NASA-CASE-ARC-10991-1] c25 N77-14157

TREADMILLS
Tread drum for animals [NASA-CASE-ARC-10917-1] c37 N76-20485

TRIGGER CIRCUITS
Design of transistorized ring counter circuit with special steering and triggering circuits [NASA-CASE-XGS-03095] c09 N69-27463
Triggering system for electric arc driven impulse wind tunnel [NASA-CASE-XNF-00411] c11 N70-36913
Voltage range selection apparatus for sensing and applying voltages to electronic instruments without loading signal source [NASA-CASE-XMS-06497] c14 N71-26244
One shot multivibrator circuit for producing long duration output pulses [NASA-CASE-ARC-10137-1] c09 N71-28468
Voltage amplitude-responsive trigger circuit with silicon controlled rectifier [NASA-CASE-GSC-10221-1] c09 N72-23171
Rapidly pulsed, high intensity, incoherent light source [NASA-CASE-XLE-2529-3] c33 N74-20859

TRIGONOMETRY
Electrical and electromechanical trigonometric computation assembly and space vehicle guidance system for aligning perpendicular axes of two sets of three-axes coordinate references [NASA-CASE-XNF-00684] c21 N71-21688

TRIMERS
New trifunctional alcohol derived from trimer acid and novel method of preparation [NASA-CASE-NPO-10714] c06 N69-31244
Catalytic trimerization of aromatic nitriles and triaryl-s-triazine ring cross-linked high temperature resistant polymers and copolymers made thereby [NASA-CASE-LEW-12053-1] c27 N74-34579
Catalytic trimerization of aromatic nitriles and triayl-s-triazine ring cross-linked high temperature resistant polymers and copolymers made thereby [NASA-CASE-LEW-12053-2] c23 N77-32244

TRIODES
Vacuum thermionic converter with short-circuited triodes and increased electron transmission and conversion efficiency [NASA-CASE-XLE-01015] c03 N69-39898

TRITIUM
Method for determining state of charge of alkali batteries by using tritium as tracer [NASA-CASE-XNF-01464] c03 N71-10728

TRUCKS
Fifth wheel [NASA-CASE-FRC-10081-1] c37 N77-14477

TRUSSES
Low mass truss structure with elongated

thin-walled tubular segments
[NASA-CASE-LAR-10546-1] c11 N72-25287
Lightweight structural columns --- for truss structures
[NASA-CASE-LAR-12095-1] c39 N77-27432
TUBE ANODES
Dual membrane, hollow fiber fuel cell
[NASA-CASE-NPO-13732-1] c44 N77-19581
TUBE CATHODES
Dual membrane, hollow fiber fuel cell
[NASA-CASE-NPO-13732-1] c44 N77-19581
TUBE HEAT EXCHANGERS
High resistance cross flow heat exchangers for electrothermal rocket engines
[NASA-CASE-XLE-01783] c28 N70-34175
Gas chromatographic method for determining water in nitrogen tetroxide rocket propellant
[NASA-CASE-NPO-10234] c06 N72-17094
Liquid cooled brassiere and method of diagnosing malignant tumors therewith
[NASA-CASE-ARC-11007-1] c52 N77-14736
TUBES
Forming tubes from long thin flat metal strips
[NASA-CASE-XGS-04175] c15 N71-18579
Hermetic sealing device for ends of tubular bodies during materials testing operations
[NASA-CASE-NPO-10431] c15 N71-29132
TUMBLING MOTION
Tumbling motion system for object demagnetization
[NASA-CASE-XGS-02437] c15 N69-21472
TUMORS
Liquid cooled brassiere and method of diagnosing malignant tumors therewith
[NASA-CASE-ARC-11007-1] c52 N77-14736
TUNGSTEN
Bonding method for improving contact between lead telluride thermoelectric elements and tungsten electrodes
[NASA-CASE-XGS-04554] c15 N69-39786
Method for producing porous tungsten plates for ionizing cesium compounds for propulsion of ion engines
[NASA-CASE-XLE-00455] c28 N70-38197
Small plasma probe using tungsten wire collector in tubular shield
[NASA-CASE-XLE-02578] c25 N71-20747
Production method for manufacturing porous tungsten bodies from tungsten powder particles
[NASA-CASE-XNP-04339] c17 N71-29137
Vapor deposition method for forming metallized tungsten contacts on silicon substrates
[NASA-CASE-GSC-10695-1] c09 N72-25259
Nuclear thermionic converter --- tungsten-thorium oxide rods
[NASA-CASE-NPO-13121-1] c73 N77-18891
TUNGSTEN ALLOYS
Evaporating crucible of tantalum-tungsten foil, nickel alumina bonding agent, and ceramic coating
[NASA-CASE-XLA-03105] c15 N69-27483
Cobalt-tungsten alloys with superior strength at elevated temperatures
[NASA-CASE-LEW-10436-1] c17 N73-32415
Directionally solidified eutectic gamma plus beta nickel-base superalloys
[NASA-CASE-LEW-12906-1] c26 N77-32279
TUNING
Active tuned circuits for microelectronic construction
[NASA-CASE-GSC-11340-1] c10 N72-33230
Microwave generator using Gunn effect for magnetic tuning
[NASA-CASE-NPO-12106] c09 N73-15235
TUNNEL DIODES
Low power drain transistor feedback circuit
[NASA-CASE-XGS-04999] c09 N69-24317
TUNNELS
Deployable flexible tunnel
[NASA-CASE-MFS-22636-1] c37 N76-22540
TURBINE BLADES
Transpiration cooled turbine blade made from metallic or ceramic wires
[NASA-CASE-XLE-00020] c15 N70-33226
Modification and improvement of turbine blades for maximum cooling efficiency
[NASA-CASE-XLE-00092] c15 N70-33264
Preparation of nickel alloys for jet turbine blades operating at high temperatures
[NASA-CASE-XLE-00151] c17 N70-33283
External device for liquid spray cooling of gas turbine blades
[NASA-CASE-XLE-00037] c28 N70-33372
Apparatus for liquid spray cooling of turbine blades
[NASA-CASE-XLE-00027] c33 N71-29152
Process for welding compressor and turbine blades to rotors and discs of jet engines
[NASA-CASE-LEW-10533-1] c15 N73-28515
Thermal barrier coating system
[NASA-CASE-LEW-12554-1] c24 N76-23359
Apparatus and method for reducing thermal stress in a turbine rotor
[NASA-CASE-LEW-12232-1] c07 N77-18160
Leading edge protection for composite blades
[NASA-CASE-LEW-12550-1] c24 N77-19170
TURBINE ENGINES
High speed, self-acting shaft seal --- for use in turbine engines
[NASA-CASE-LEW-11274-1] c37 N75-21631
Gas path seal --- for use with turbine engines
[NASA-CASE-LEW-12131-1] c37 N77-24498
Dual cycle aircraft turbine engine
[NASA-CASE-LAR-11310-1] c07 N77-28118
TURBINE PUMPS
Pulsed energy power system for application of combustible gases to turbine controlling ac voltage generator
[NASA-CASE-MSC-13112] c03 N71-11057
Portable cryogenic cooling system design including turbine pump, cooling chamber, and atomizer
[NASA-CASE-NPO-10467] c23 N71-26654
Supersonic-combustion rocket
[NASA-CASE-LEW-11058-1] c20 N74-13502
TURBINE WHEELS
Locking device for retaining turbine rotor blades on turbine wheel
[NASA-CASE-XNP-00816] c28 N71-28928
Apparatus for welding blades to rotors
[NASA-CASE-LEW-10533-2] c37 N74-11300
Blade retainer assembly
[NASA-CASE-LEW-12608-1] c07 N77-27116
TURBINES
Liquid-vapor interface seal design for turbine rotating shafts including helical and molecular pumps and liquid cooling of mercury vapor
[NASA-CASE-XNP-02862-1] c15 N71-26294
TURBOCOMPRESSORS
Multistage multiple reentry axial flow reaction turbine with reverse flow reentry ducting
[NASA-CASE-XLE-00170] c15 N70-36412
TURBOFAN ENGINES
Supersonic fan blading --- noise reduction in turbofan engines
[NASA-CASE-LEW-11402-1] c07 N74-28226
Noise suppressor --- for turbofan engine by incorporating annular acoustically porous elements in exhaust and inlet ducts
[NASA-CASE-LAR-11141-1] c07 N74-32418
Noise suppressor for turbo fan jet engines
[NASA-CASE-ARC-10812-1] c07 N76-18131
TURBOFANS
Dual output variable pitch turbofan actuation system
[NASA-CASE-LEW-12419-1] c07 N77-14025
Reverse pitch fan with divided splitter
[NASA-CASE-LEW-12760-1] c07 N77-17059
TURBOJET ENGINES
Telescoping-spike supersonic nozzle for turbojet or ramjet engines
[NASA-CASE-XLE-00005] c28 N70-39899
Design and development of gas turbine combustion unit with nozzle guide vanes for introducing diluent air into combustion gases
[NASA-CASE-XLE-103477-1] c28 N71-20330
Reduction of nitric oxide emissions from a combustor
[NASA-CASE-ARC-10814-2] c25 N77-31260
TURBOMACHINE BLADES
Platform for a swing root turbomachinery blade
[NASA-CASE-LEW-12312-1] c07 N77-32148
TURBOMACHINERY
Blade vibration damping pins for turbomachinery
[NASA-CASE-XLE-00155] c28 N71-29154
TURBOSHAFTS
Remote-reading torquemeter for use where high horsepowers are transmitted at high rotative

speeds
[NASA-CASE-XLE-00503] c14 N70-34818
High speed, self-acting shaft seal --- for use in turbine engines
[NASA-CASE-LEW-11274-1] c37 N75-21631
TURBULENCE METERS
Turbulence intensity indicator
[NASA-CASE-LAR-11833-1] c06 N76-31229
TURBULENT FLOW
Exhaust flow deflector --- for ducted gas flow
[NASA-CASE-LAR-11570-1] c34 N76-18364
System for measuring Reynolds in a turbulently flowing fluid --- signal processing
[NASA-CASE-ARC-10755-2] c34 N76-27517
System for measuring three fluctuating velocity components in a turbulently flowing fluid
[NASA-CASE-ARC-10974-1] c34 N77-27345
TURBULENT WAKES
Vortex attenuation method --- for multi-engine aircraft
[NASA-CASE-LAR-12034-1] c02 N77-22045
TURNSTILE ANTENNAS
Flexible turnstile antenna system for reducing nutation in spin-oriented satellites
[NASA-CASE-XMF-00442] c31 N71-10747
Broadband modified turnstile antenna for use in space tracking and communications
[NASA-CASE-MSC-12209] c09 N71-24842
Turnstile slot antenna
[NASA-CASE-GSC-11428-1] c32 N74-20864
Turnstile and flared cone UHF antenna
[NASA-CASE-LAR-10970-1] c33 N76-14372
TURRET
Indexing mechanism for cathode array substitution in electron beam tube
[NASA-CASE-NPO-10625] c09 N71-26182
TWO BODY PROBLEM
Instrument for measuring potentials on two dimensional electric field plot
[NASA-CASE-XLA-08493] c10 N71-19421
TWO DIMENSIONAL BODIES
Two dimensional wedge/translating shroud nozzle
[NASA-CASE-LAR-11919-1] c07 N76-22202
Two-dimensional radiant energy array computers and computing devices
[NASA-CASE-GSC-11839-1] c60 N77-14751
TWO PHASE FLOW
Solenoid two-step valve for bipropellant flow rate control to rocket engine
[NASA-CASE-XMS-04890-1] c15 N70-22192
Two phase fluid pressurization system for propellant tank
[NASA-CASE-MSC-12390] c27 N71-29155
Two-phase flow system with discrete, impinging two-phase jets
[NASA-CASE-NPO-11556] c12 N72-25292
TYPEWRITERS
Guide for a typewriter
[NASA-CASE-MFS-15218-1] c37 N77-19457

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U BENDS
Elbow forming in jacketed pipes while maintaining separation between core shape and jacket pipes
[NASA-CASE-XNP-10475] c15 N71-24679
U shaped heated tube for distillation and purification of liquid metals
[NASA-CASE-XNP-08124-2] c06 N73-13129
ULLAGE
Radiation source and detection system for measuring amount of liquid inside tanks independently of liquid configuration
[NASA-CASE-MSC-12280] c27 N71-16348
ULTRAHIGH FREQUENCIES
Turnstile and flared cone UHF antenna
[NASA-CASE-LAR-10970-1] c33 N76-14372
Swept group delay measurement
[NASA-CASE-NPO-13909-1] c33 N77-17358
ULTRAHIGH VACUUM
Solid lubricant applied to porous roller bearings prior to use in ultrahigh vacuum
[NASA-CASE-XLE-09527] c15 N71-17688
Calibration of vacuum gauges for measuring total and partial pressures in ultrahigh vacuum region
[NASA-CASE-XGS-07752] c14 N73-30390
Ultrahigh vacuum gauge with two collector electrodes
[NASA-CASE-LAR-02743] c14 N73-32324
In situ transfer standard for ultrahigh vacuum gage calibration
[NASA-CASE-LAR-10862-1] c35 N74-15092
ULTRASONIC AGITATION
Development of ultrasonic radiation equipment for removing material from host surface and vacuum apparatus for recovery of material
[NASA-CASE-NPO-11213] c15 N73-20514
ULTRASONIC RADIATION
Ultrasonic biomedical measuring and recording apparatus --- for recording motion of internal organs such as heart valves
[NASA-CASE-ARC-10597-1] c52 N74-20726
Biomedical ultrasonoscope
[NASA-CASE-ARC-10994-1] c52 N76-33835
EKG and ultrasonoscope display
[NASA-CASE-ARC-10994-2] c52 N77-15619
ULTRASONIC TESTS
Ultrasonic scanner for radial and flat panels
[NASA-CASE-MFS-20335-1] c35 N74-10415
Ultrasonic scanning system for in-place inspection of brazed tube joints
[NASA-CASE-MFS-20767-1] c38 N74-15130
Method and apparatus for nondestructive testing --- using high frequency arc discharges
[NASA-CASE-MFS-21233-1] c38 N74-15395
A CW ultrasonic bolt tensioning monitor
[NASA-CASE-LAR-12016-1] c32 N77-15236
A miniature implantable ultrasonic echosonometer
[NASA-CASE-ARC-11035-1] c52 N77-15621
ULTRASONIC WAVE TRANSDUCERS
Development of ultrasonic radiation equipment for removing material from host surface and vacuum apparatus for recovery of material
[NASA-CASE-NPO-11213] c15 N73-20514
Ultrasonic bone densitometer
[NASA-CASE-MFS-20994-1] c35 N75-12271
Reference apparatus for medical ultrasonic transducer
[NASA-CASE-ARC-10753-1] c54 N75-27760
Ultrasonic calibration device --- for producing changes in acoustic attenuation and phase velocity
[NASA-CASE-LAR-11435-1] c35 N76-15432
ULTRASONIC WELDING
Ultrasonically bonded value assembly
[NASA-CASE-NPO-13360-1] c37 N75-25185
ULTRASONICS
Ultrasonic wrench for applying vibratory energy to mechanical fasteners
[NASA-CASE-MFS-20586] c15 N71-17686
ULTRAVIOLET FILTERS
Ultraviolet filter of thorium fluoride and cryolite on quartz base
[NASA-CASE-XNP-02340] c23 N69-24332
Development of ultraviolet resonance lamp with improved transmission of radiation
[NASA-CASE-ARC-10030] c09 N71-12521
ULTRAVIOLET RADIATION
Ultraviolet radiation resistant alkali-metal silicate coatings for temperature control of spacecraft
[NASA-CASE-XGS-04119] c18 N69-39979
Development of ultraviolet resonance lamp with improved transmission of radiation
[NASA-CASE-ARC-10030] c09 N71-12521
Gas leak detection in evacuated systems using ultraviolet radiation probe
[NASA-CASE-ERC-10034] c15 N71-24896
Phototropic composition of matter with sensitivity to ultraviolet light and usable for producing positive photographic images
[NASA-CASE-XGS-03736] c14 N72-22443
Transmitting and reflecting diffuser
[NASA-CASE-LAR-10385-3] c23 N73-32538
Transmitting and reflecting diffuser --- for ultraviolet light
[NASA-CASE-LAR-10385-2] c70 N74-13436
Ultraviolet and thermally stable polymer compositions
[NASA-CASE-ARC-10592-1] c27 N74-21156
Light shield and cooling apparatus --- high intensity ultraviolet lamp
[NASA-CASE-LAR-10089-1] c34 N74-23066
Flame detector operable in presence of proton radiation
[NASA-CASE-MFS-21577-1] c19 N74-29410

Method and apparatus for generating coherent radiation in the ultra-violet region and above by use of distributed feedback
[NASA-CASE-NPO-13346-1] c36 N76-29575
Ultraviolet and thermally stable polymer compositions
[NASA-CASE-ARC-10592-2] c27 N76-32315
ULTRAVIOLET REFLECTION
Composition and production method of alkali metal silicate paint with ultraviolet reflection properties
[NASA-CASE-XGS-04799] c18 N71-24183
Ultraviolet light reflective coating
[NASA-CASE-GSC-11786-1] c24 N76-24363
ULTRAVIOLET SPECTRA
Ultraviolet chromatographic detector for quantitative and qualitative analysis of compounds
[NASA-CASE-HQN-10756-1] c14 N72-25428
ULTRAVIOLET SPECTROMETERS
Concave grating spectrometer for use in near and vacuum ultraviolet regions
[NASA-CASE-XGS-01036] c14 N70-40003
Telespectrograph for analyzing upper atmosphere by tracking bodies reentering atmosphere at high velocities
[NASA-CASE-XLA-03273] c14 N71-18699
UMBILICAL CONNECTORS
Umbilical separator for rockets
[NASA-CASE-XNP-00425] c11 N70-38202
Remotely actuated quick disconnect mechanism for umbilical cables
[NASA-CASE-XLA-00711] c03 N71-12258
Remotely actuated quick disconnect for tubular umbilical conduits used to transfer fluids from ground to rocket vehicle
[NASA-CASE-XLA-01396] c03 N71-12259
Internal and external serpentine devices for performing physical operations around orbital space stations
[NASA-CASE-XNP-05344] c31 N71-16345
Breakaway multiwire electrical cable connector with particular application for umbilical type cables
[NASA-CASE-NPO-11140] c15 N72-17455
Gas operated quick disconnect coupling for umbilical connectors
[NASA-CASE-NPO-11202] c15 N72-25450
Deployable flexible tunnel
[NASA-CASE-MFS-22636-1] c37 N76-22540
UMBILICAL TOWERS
Emergency escape cabin system for launch towers
[NASA-CASE-KKS-02342] c05 N71-11199
UNDERWATER ENGINEERING
Ejectable underwater sound source recovery assembly
[NASA-CASE-LAR-10595-1] c35 N74-16135
UNDERWATER TESTS
Pressure regulator for space suit worn underwater to simulate space environment for testing and experimentation
[NASA-CASE-MFS-20332] c05 N72-20097
Underwater space suit pressure control regulator
[NASA-CASE-MFS-20332-2] c05 N73-25125
UNIFORM FLOW
Wind tunnel flow generation section
[NASA-CASE-ARC-10710-1] c09 N75-12969
UNLOADING
Bootstrap unloading circuits for sampling transducer voltage sources without drawing current
[NASA-CASE-XNP-09768] c09 N71-12516
UNMANNED SPACECRAFT
Device which separates and screens particles of soil samples for vidicon viewing in vacuum and reduced gravity environments
[NASA-CASE-XNP-09770-3] c11 N71-27036
UPPER ATMOSPHERE
Telespectrograph for analyzing upper atmosphere by tracking bodies reentering atmosphere at high velocities
[NASA-CASE-XLA-03273] c14 N71-18699
Development and operation of apparatus for sampling particulates in gases in upper atmosphere
[NASA-CASE-HQN-10037-1] c14 N73-27376
Rocket having barium release system to create ion clouds in the upper atmosphere
[NASA-CASE-LAR-10670-2] c15 N74-27360
URANIUM 235
Isotope separation using metallic vapor lasers
[NASA-CASE-NPO-13550-1] c36 N77-26477
UREAS
A reverse osmosis membrane of high urea rejection properties
[NASA-CASE-ARC-10980-1] c27 N77-18265
Aldehyde-containing urea-absorbing polysaccharides
[NASA-CASE-NPO-13620-1] c27 N77-30236
URINALYSIS
Automated fluid chemical analyzer for microchemical analysis of small quantities of liquids by use of selected reagents and analyzer units
[NASA-CASE-XNP-09451] c06 N71-26754
Enzymatic luminescent bioassay method for determining bacterial levels in urine
[NASA-CASE-GSC-11092-2] c04 N73-27052
Automatic device for assaying urine on bacterial adenosine triphosphate content
[NASA-CASE-GSC-11169-2] c05 N73-32011
URINATION
Open type urine receptacle with tubular housing
[NASA-CASE-MSC-12324-1] c05 N72-22093
URINE
Determination of antimicrobial susceptibilities of infected urines without isolation
[NASA-CASE-GSC-12046-1] c52 N77-26797
UTERUS
A cervix-to-rectum measuring device in a radiation applicator for use in the treatment of cervical cancer
[NASA-CASE-GSC-12081-2] c52 N77-26796

V

V GROOVES
Vee-notching device --- with adjustable carriage
[NASA-CASE-MFS-20730-1] c39 N74-13131
VACANCIES (CRYSTAL DEFECTS)
Bimetallic junctions
[NASA-CASE-LEW-11573-1] c26 N77-28265
VACUUM
Hole mobility of deposited semiconductor films in vacuum utilizing thermal gradient
[NASA-CASE-XNS-04614] c15 N69-21460
Operating properties of superconducting magnet in vacuum environment
[NASA-CASE-XNP-06503] c23 N71-29049
VACUUM APPARATUS
Null-type vacuum microbalance for measuring minute mechanical displacements
[NASA-CASE-XAC-00472] c15 N70-40180
Sealing evacuation port and evacuating vacuum container such as space jackets
[NASA-CASE-XNP-03290] c15 N71-23256
Apparatus for determining volatile condensable material present in polymeric products
[NASA-CASE-XNP-09699] c06 N71-24607
Oil trap for preventing diffusion pump backstreaming into evacuated system
[NASA-CASE-GSC-10518-1] c15 N72-22489
Inductance device with vacuum insulation and materials of low gas entrapping capability
[NASA-CASE-LEW-10330-1] c09 N72-27226
Development of apparatus for producing metal powder particles of controlled size
[NASA-CASE-XLE-06461-2] c17 N72-28535
Portable vacuum probe surface sampler for sampling large surface areas with relatively light loading densities of microorganisms
[NASA-CASE-LAR-10623-1] c14 N73-30395
Servo valve
[NASA-CASE-LAR-11643-1] c37 N75-13268
Vacuum leak detector
[NASA-CASE-LAR-11237-1] c35 N75-19612
Apparatus for positioning modular components on a vertical or overhead surface
[NASA-CASE-LAR-11465-1] c37 N76-21554
VACUUM CHAMBERS
High-vacuum condenser tank for testing ion rocket engines
[NASA-CASE-XLE-00168] c11 N70-33278
Portable electron beam welding chamber
[NASA-CASE-LEW-11531] c15 N71-14932
Space environmental work simulator with portions of space suit mounted to vacuum chamber wall
[NASA-CASE-XNP-07888] c11 N71-18773

Ionization control system design for monitoring separately located ion gage pressures on vacuum chambers
[NASA-CASE-XLE-00787] c14 N71-21090
Coherent light beam device and method for measuring gas density in vacuum chambers
[NASA-CASE-XER-11203] c14 N71-28994
Transferring liquid nitrogen through vacuum chamber to cryopanel
[NASA-CASE-LAR-10031] c15 N72-22484
Vacuum chamber with scale model of rocket engine base area of space vehicle
[NASA-CASE-MFS-20620] c11 N72-27262
Packless valve for use with evacuation chamber with adapter for attachment to vacuum line and vacuum pump
[NASA-CASE-LAR-10061-1] c15 N72-31483
Apparatus for analyzing gas samples in containers including vacuum chamber, mass spectrometer, and gas chromatography
[NASA-CASE-GSC-10903-1] c14 N73-12444
Design and development of test stand system for supporting test items in vacuum chamber
[NASA-CASE-MFS-21362] c11 N73-20267

VACUUM DEPOSITION
Deposition method for epitaxial beta SiC films having high degree of crystallographic perfection
[NASA-CASE-ERC-10120] c26 N69-33482
Describing apparatus used in vacuum deposition of thin film inductive windings for spacecraft microcircuitry
[NASA-CASE-XMF-01667] c15 N71-17647
Spatter proof evaporant source design for use in vacuum deposition of solid thin films on substrates
[NASA-CASE-XMF-06065] c15 N71-20395
Device for high vacuum film deposition with electromagnetic ion steering
[NASA-CASE-NPO-10331] c09 N71-26701
Preparation of dielectric coatings of variable dielectric constant by plasma polymerization
[NASA-CASE-ARC-10892-2] c27 N77-17245

VACUUM FURNACES
Apparatus for inserting and removing specimens from high temperature vacuum furnaces
[NASA-CASE-LAR-10841-1] c31 N74-27900

VACUUM GAGES
Simulating operation of thermopile vacuum gage tube at high and low pressures
[NASA-CASE-XLA-02758] c14 N71-18481
Calibration of vacuum gauges for measuring total and partial pressures in ultrahigh vacuum region
[NASA-CASE-XGS-07752] c14 N73-30390
Ionization gage for measuring ultrahigh vacuum levels
[NASA-CASE-XLA-05087] c14 N73-30391
In situ transfer standard for ultrahigh vacuum gage calibration
[NASA-CASE-LAR-10862-1] c35 N74-15092

VACUUM MELTING
Electric furnace for vacuum and zero gravity melting of high melting point materials during earth orbit
[NASA-CASE-MFS-20710] c11 N72-23215

VACUUM SYSTEMS
Shrink-fit vacuum system gas valve
[NASA-CASE-XGS-00587] c15 N70-35087
Leakproof soft metal seal for use in very high vacuum systems operating at cryogenic temperatures
[NASA-CASE-XGS-02441] c15 N70-41629
Describing hot filament type Bayard-Alpert ionization gage with ion collector buried or removed from grid structure
[NASA-CASE-XLA-07424] c14 N71-18482
Describing sorption vacuum trap having housing with group of reentrant wall portions projecting into internal gas-pervious container filled with gas and vapor sorbent material
[NASA-CASE-XER-09519] c14 N71-18483
Vacuum leak detector
[NASA-CASE-LAR-11237-1] c35 N75-19612

VACUUM TUBES
Integrated structure vacuum tube
[NASA-CASE-ARC-10445-1] c31 N76-31365

VALVE
High impact pressure regulator having minimum number of lightweight movable elements
[NASA-CASE-NPO-10175] c14 N71-18625

VALVES
Actuator using compressed gas as driving force to control valve handling large liquid flows
[NASA-CASE-XHQ-01208] c15 N70-35409
Two component valve assembly for cryogenic liquid transfer regulation
[NASA-CASE-XLE-00397] c15 N70-36492
High pressure four-way valve with O ring adapted to pass across inlet port
[NASA-CASE-XNP-00214] c15 N70-36908
Reinforcing beam system for highly flexible diaphragms in valves or pressure switches
[NASA-CASE-XNP-01962] c32 N70-41370
Multiple vortex amplifier system as fluid valve
[NASA-CASE-XMF-04709] c15 N71-15609
Throttle valve for regulating fluid flow volume
[NASA-CASE-XNP-09698] c15 N71-18580
Development and characteristics of high pressure control valve
[NASA-CASE-MSC-11010] c15 N71-19485
Valve seat with resilient support ring for venting valves subjected to high pressure sealing loads
[NASA-CASE-XKS-02582] c15 N71-21234
Positive locking check valve for stopping reversed flow
[NASA-CASE-XMS-09310] c15 N71-22706
Valve assembly for controlling simultaneously more than one fluid flow, and having stable qualities under loads
[NASA-CASE-XMS-05890] c09 N71-23191
Segmented sealing surface in valve seat
[NASA-CASE-NPO-10606] c15 N72-25451
Packless valve for use with evacuation chamber with adapter for attachment to vacuum line and vacuum pump
[NASA-CASE-LAR-10061-1] c15 N72-31483
Flow control valve --- for high temperature fluids
[NASA-CASE-NPO-11951-1] c37 N74-21065
Airlock
[NASA-CASE-MFS-20922-1] c18 N74-22136

VANES
Design and characteristics of device for sensing solar radiation and providing spacecraft attitude control to maintain direction with respect to incident radiation
[NASA-CASE-XNP-05535] c14 N71-23040
Rotary vane attenuator with two stators and intermediary rotor, using resistive and orthogonally disposed cards
[NASA-CASE-NPO-11418-1] c14 N73-13420

VAPOR DEPOSITION
Deposition method for epitaxial beta SiC films having high degree of crystallographic perfection
[NASA-CASE-ERC-10120] c26 N69-33482
Device for producing high purity silicon carbide on carbon base by hydrogen reduction of silicon tetrachloride
[NASA-CASE-XLA-02057] c26 N70-40015
Water content in vapor deposition atmosphere for forming n-type and p-type junctions of zinc doped gallium arsenide
[NASA-CASE-XNP-01961] c26 N71-29156
Vapor deposition method for forming metallized tungsten contacts on silicon substrates
[NASA-CASE-GSC-10695-1] c09 N72-25259
Means of vapor deposition using electric current and evaporator filament
[NASA-CASE-LAR-10541-1] c15 N72-32487
Deposition of alloy films --- on irregulary shaped metal object
[NASA-CASE-LEW-11262-1] c27 N74-13270
System for depositing thin films
[NASA-CASE-MFS-20775-1] c31 N75-12161
Vapor deposition apparatus --- semiconductors and gallium arsenides
[NASA-CASE-HQN-10462] c25 N75-29192

VAPOR PHASES
Method and feed system for separating and orienting liquid and vapor phases of liquid propellants in zero gravity environment
[NASA-CASE-XLE-01182] c27 N71-15635
Gallium arsenide solar cell preparation by surface deposition of cuprous iodide on thin n-type polycrystalline layers and heating in iodine vapor

[NASA-CASE-XNP-01960] c09 N71-23027
Mixed liquid and vapor phase analyzer design with thermocouples for relative heat transfer measurement
[NASA-CASE-NPO-10691] c14 N71-26199
Electronic recording system for spatial mass distribution of liquid rocket propellant droplets or vapors ejected from high velocity nozzles
[NASA-CASE-NPO-10185] c10 N71-26339
Low gravity phase separator
[NASA-CASE-MSC-14773-1] c31 N75-32262

VAPOR PRESSURE
Fuel tank pressure-relief device for venting cryogenic liquid vapors through tubes with porous plug
[NASA-CASE-XLE-00288] c15 N70-34247
Vapor-liquid separator design with vapor driven pump for separated liquid pumping for application in propellant transfer
[NASA-CASE-XNP-04042] c15 N71-23023

VAPOR TRAPS
Describing sorption vacuum trap having housing with group of reentrant wall portions projecting into internal gas-pervious container filled with gas and vapor sorbent material
[NASA-CASE-XER-09519] c14 N71-18483

VAPORIZERS
Vapor generating boiler system for turbine motor
[NASA-CASE-XLE-00785] c33 N71-16104

VAPORIZING
Apparatus and process for volumetrically dispensing reagent quantities of volatile chemicals for small batch reactions
[NASA-CASE-NPO-10070] c15 N71-27372
Development of method for controlling vapor content of gas
[NASA-CASE-NPO-10633] c03 N72-28025

VARACTOR DIODE CIRCUITS
Phase modulator with tuned variable length electrical lines including coupling and varactor diode circuits
[NASA-CASE-MSC-13201-1] c07 N71-28429

VARACTOR DIODES
Varactor microwave frequency mixing circuit
[NASA-CASE-XGS-02171] c09 N69-24324
Multiple varactor for generating high frequencies with high power and high conversion efficiency
[NASA-CASE-XNP-04958-1] c10 N71-26414
Millimeter wave pumped parametric amplifier
[NASA-CASE-GSC-11617-1] c33 N74-32660

VARIABLE CYCLE ENGINES
Dual cycle aircraft turbine engine
[NASA-CASE-LAR-11310-1] c07 N77-28118

VARIABLE GEOMETRY STRUCTURES
Aerospace configuration with low and high aspect ratio variability for high and low speed flight
[NASA-CASE-XLA-00142] c02 N70-33286
Variable geometry wind tunnel for testing aircraft models at subsonic speeds
[NASA-CASE-XLA-07430] c11 N72-22246

VARIABLE PITCH PROPELLERS
Dual output variable pitch turbofan actuation system
[NASA-CASE-LEW-12419-1] c07 N77-14025

VARIABLE SWEEP WINGS
Variable sweep wing configuration for supersonic aircraft
[NASA-CASE-XLA-00230] c02 N70-33255
Variable aspect ratio and variable sweep delta wing planforms for supersonic aircraft
[NASA-CASE-XLA-00221] c02 N70-33266
Supersonic aircraft configuration providing for variable aspect ratio and variable sweep wings
[NASA-CASE-XLA-00166] c02 N70-34178
Supersonic aircraft variable sweep wing planform for varying aspect ratio
[NASA-CASE-XLA-00350] c02 N70-38011
Development and characteristics of variable sweep wing control system for supersonic aircraft
[NASA-CASE-XLA-03659] c02 N71-11041
Design of dual fuselage aircraft with pivoting wing and horizontal stabilizer to permit yawing of wing in flight for high speed operation
[NASA-CASE-ARC-10470-1] c02 N73-26005

VARIABLE THRUST
Variable thrust ion engine using thermal decomposition of solid cesium compound to produce propulsive vapor
[NASA-CASE-XNP-00923] c28 N70-36802
Continuous variation of propellant flow and thrust by application of liquid foam flow theory to injection orifice
[NASA-CASE-XLE-00177] c28 N70-40367

VARIATIONS
Gearing system for eliminating backlash and filtering input torque fluctuations from high inertia load
[NASA-CASE-XGS-04227] c15 N71-21744

VECTOR ANALYSIS
Development of two force component measuring device
[NASA-CASE-XAC-04886-1] c14 N71-20439

VECTORCARDIOGRAPHY
Electromedical garment, applying vectorcardiologic type electrodes to human torsos for data recording during physical activity
[NASA-CASE-XFR-10856] c05 N71-11189

VEGETATION GROWTH
Rotary plant growth accelerating apparatus --- weightlessness
[NASA-CASE-ARC-10722-1] c51 N75-25503
Remote sensing of vegetation and soil using microwave ellipsometry
[NASA-CASE-GSC-11976-1] c43 N76-23671

VEHICLE WHEELS
Resilient vehicle wheel for lunar surface travel
[NASA-CASE-MFS-20400] c31 N71-18611
Resilient wheel design with woven wire tire and abrasive treads for lunar surface vehicles
[NASA-CASE-MFS-13929] c15 N71-27091
Omnidirectional wheel
[NASA-CASE-MFS-21309-1] c37 N74-18125
Two speed drive system --- mechanical device for changing speed on rotating vehicle wheel
[NASA-CASE-MFS-20645-1] c37 N74-23070
Fifth wheel
[NASA-CASE-FRC-10081-1] c37 N77-14477

VELOCITY
Velocity limiting safety system for motor driven research vehicle
[NASA-CASE-XLA-07473] c15 N71-24895

VELOCITY MEASUREMENT
Particle detector for measuring micrometeoroid velocity in space
[NASA-CASE-XLA-00495] c14 N70-41332
Superconductive accelerometer employing variable force principle to determine acceleration of bodies
[NASA-CASE-XNP-01099] c14 N71-15969
Device for determining acceleration of gravity by interferometric measurement of travel of falling body
[NASA-CASE-XNP-05844] c14 N71-17587
Describing laser Doppler velocimeter for measuring mean velocity and turbulence of fluid flow
[NASA-CASE-MFS-20386] c21 N71-19212
Momentum-velocity analyzer for measuring minute space particles
[NASA-CASE-XMS-04201] c14 N71-22990
Development of combined velocimeter and accelerometer based on color changes in liquid crystalline material subjected to shear stresses
[NASA-CASE-ERC-10292] c14 N72-25410
Instrument for measuring magnitude and direction of flow velocity in flow field
[NASA-CASE-LAR-10855-1] c14 N73-13415
Doppler shift system --- system for measuring velocities of radiating particles
[NASA-CASE-HQN-10740-1] c72 N74-19310
Velocity measurement system
[NASA-CASE-MFS-23363-1] c35 N76-33469
Tachometer
[NASA-CASE-MFS-23175-1] c35 N77-30436

VELOCITY MODULATION
Selector mechanism for mechanical separation and discrimination of high velocity molecular particles
[NASA-CASE-XLE-01533] c11 N71-10777
Describing device for velocity control of electromechanical drive mechanism of scanning mirror of interferometer

[NASA-CASE-XGS-03532] c14 N71-17627
VENTILATORS
Heat sterilizable patient ventilator
[NASA-CASE-NPO-13313-1] c54 N75-27761
VENTING
Fuel tank pressure-relief device for venting cryogenic liquid vapors through tubes with porous plug
[NASA-CASE-XLE-00288] c15 N70-34247
Venting device for liquid propellant storage tank using magnetic field to separate liquid and gaseous phases
[NASA-CASE-XLE-01449] c15 N70-41646
Valve seat with resilient support ring for venting valves subjected to high pressure sealing loads
[NASA-CASE-XKS-02582] c15 N71-21234
Venting device for pressurized space suit helmet to eliminate vomit expelled by crewmen
[NASA-CASE-XMS-09652-1] c05 N71-26333
Solid propellant rocket engine with venting system to control effective nozzle throat area
[NASA-CASE-XNP-03282] c28 N72-20758
VENUS (PLANET)
Space simulator with uniform test region radiation distribution, adapted to simulate Venus solar radiations
[NASA-CASE-XNP-00459] c11 N70-38675
VERTICAL FLIGHT
Aircraft indicator for pilot control of takeoff roll, climbout path and vertical flight path in poor visibility conditions
[NASA-CASE-XLA-00487] c14 N70-40157
VERTICAL LANDING
Vertically descending flight vehicle landing gear for rough terrain
[NASA-CASE-XNP-01174] c02 N70-41589
VERTICAL TAKEOFF AIRCRAFT
Mechanical stabilization system for VTOL aircraft
[NASA-CASE-XLA-06339] c02 N71-13422
Development of attitude control system for vertical takeoff aircraft using reaction nozzles displaced from various axes of aircraft
[NASA-CASE-XAC-08972] c02 N71-20570
VERY HIGH FREQUENCIES
VHF/UHF parasitic probe antenna for spacecraft communication
[NASA-CASE-XKS-09340] c07 N71-24614
VESTS
Lightweight life preserver without fastening devices
[NASA-CASE-XMS-00864] c05 N70-36493
VIBRATION
Three stage motion restraining mechanism for restraining and damping three dimensional vibrational movement of gimballed package during launch of spacecraft
[NASA-CASE-GSC-10306-1] c15 N71-24694
Vibration control of flexible bodies in steady accelerating environment
[NASA-CASE-LAR-10106-1] c15 N71-27169
VIBRATION DAMPING
Mercury filled pendulum damper for controlling bending vibration induced by wind effects
[NASA-CASE-LAR-10274-1] c14 N71-17626
Digital filter for reducing jitter in digital control systems
[NASA-CASE-NPO-11088] c08 N71-29034
Blade vibration damping pins for turbomachinery
[NASA-CASE-XLE-00155] c28 N71-29154
VIBRATION EFFECTS
Electromagnetic energy detection by thermal sensor with vibrating electrode
[NASA-CASE-XAC-10768] c09 N71-18830
Development of ultrasonic radiation equipment for removing material from host surface and vacuum apparatus for recovery of material
[NASA-CASE-NPC-11213] c15 N73-20514
Development of optical system for detecting defective components in rotating machinery with emphasis on bearing assemblies
[NASA-CASE-KSC-10752-1] c15 N73-27407
VIBRATION ISOLATORS
Shock and vibration damping device using temperature sensitive solid amorphous polymers
[NASA-CASE-XAC-11225] c14 N69-27486
Miniature vibration isolator utilizing elastic tubing material
[NASA-CASE-XLA-01019] c15 N70-40156
Vibration damping system operating in low vacuum environment for spacecraft mechanisms
[NASA-CASE-XMS-01620] c23 N71-15673
Hermetically sealed vibration damper design for use in gimbal assembly of spacecraft inertial guidance system
[NASA-CASE-MSC-10959] c15 N71-26243
Tuned damped vibration absorber for mass vibrating in more than one degree of freedom for use with wind tunnel models
[NASA-CASE-LAR-10083-1] c15 N71-27006
Vibration isolation system, using coaxial helical compression springs
[NASA-CASE-NPO-11012] c15 N72-11391
Thrust-isolating mounting --- characteristics of support for loads mounted in spacecraft
[NASA-CASE-MFS-21680-1] c18 N74-27397
Shock absorbing mount for electrical components
[NASA-CASE-NPO-13253-1] c37 N75-18573
Thermal insulation attaching means --- adhesive bonding of felt vibration isolators under ceramic tiles
[NASA-CASE-MSC-12619-2] c16 N77-31237
VIBRATION MEASUREMENT
Development of system for measuring damping characteristics of structure or system subjected to random forces or influnces
[NASA-CASE-ARC-10154-1] c14 N72-22440
Method and apparatus for vibration analysis utilizing the Mossbauer effect
[NASA-CASE-XNP-05882] c35 N75-27329
VIBRATION METERS
Fiber optic transducers for monitoring and analysis of vibration in aerospace vehicles and onboard equipment
[NASA-CASE-XNP-02433] c14 N71-10616
VIBRATION MODE
Function generators for producing complex vibration mode patterns used to identify vibration mode data
[NASA-CASE-LAR-10310-1] c10 N73-20253
VIBRATION SIMULATORS
Equipment for vibration testing of assemblies, components, and other articles
[NASA-CASE-GSC-11302-1] c14 N73-13416
VIBRATION TESTS
Electronic detection system for peak acceleration limits in vibrational testing of spacecraft components
[NASA-CASE-NPO-10556] c14 N71-27185
Fixture for supporting articles during vibration tests comprising integral annular unit
[NASA-CASE-MFS-20523] c14 N72-27412
Equipment for vibration testing of assemblies, components, and other articles
[NASA-CASE-GSC-11302-1] c14 N73-13416
Multiaxes vibration device for making vibration tests along orthogonal axes of test specimen
[NASA-CASE-MFS-20242] c14 N73-19421
VIBRATIONAL SPECTRA
Tuned damped vibration absorber for mass vibrating in more than one degree of freedom for use with wind tunnel models
[NASA-CASE-LAR-10083-1] c15 N71-27006
VIDEO COMMUNICATION
Circuitry for generating sync signals in FM communication systems including video information
[NASA-CASE-XNP-10830] c07 N71-11281
Monitoring circuit design for sampling circuit control and reduction of time-bandwidth in video communication systems
[NASA-CASE-XNP-02791] c07 N71-23026
Teletypewriter video communication system and apparatus
[NASA-CASE-XNP-06611] c07 N71-26102
Sampling video compression system
[NASA-CASE-ARC-10984-1] c32 N77-24328
VIDEO DATA
TV camera output signal control system for digital spacecraft communication
[NASA-CASE-XNP-01472] c14 N70-41807
Transient video signal tape recorder with expanded playback
[NASA-CASE-ARC-10003-1] c09 N71-25866
Restoration and improvement of demodulated facsimile video signals
[NASA-CASE-GSC-10185-1] c07 N72-12081

Dual digital video switcher
[NASA-CASE-KSC-10782-1] c33 N75-30431
VIDEO EQUIPMENT
Video signal processing system for sampling video brightness levels
[NASA-CASE-NPO-10140] c07 N71-24742
Video sync processor with phase locked system
[NASA-CASE-KSC-10002] c10 N71-25865
Teletypewriter video communication system and apparatus
[NASA-CASE-XNP-06611] c07 N71-26102
Video signal enhancement of signal component representing brightness of scene element in low contrast
[NASA-CASE-NPO-10343] c07 N71-27341
Circuitry for high input impedance video processor with high noise immunity
[NASA-CASE-NPO-10199] c09 N72-17156
Electronic video editor for switching video input signals to common output channel
[NASA-CASE-KSC-10003] c10 N73-13235
Video tape recorder with scan conversion playback for color television signals
[NASA-CASE-NPO-10166-1] c07 N73-22076
Scan converting video tape recorder
[NASA-CASE-NPO-10166-2] c35 N76-16391
Stack plume visualization system
[NASA-CASE-LAR-11675-1] c45 N76-17656
VIDICONS
Operation of vidicon tube for scanning spatial charge density pattern
[NASA-CASE-XNP-06028] c09 N71-23189
Device which separates and screens particles of soil samples for vidicon viewing in vacuum and reduced gravity environments
[NASA-CASE-XNP-09770-3] c11 N71-27036
VINYL POLYMERS
Method of producing output voltage from photovoltaic cell using poly-N-vinyl carbazole complexed with iodine
[NASA-CASE-NPO-10373] c03 N71-18698
Heat resistant polymers of oxidized styrylphosphine
[NASA-CASE-MSC-14903-1] c27 N76-28425
VINYLIDENE
Preparation of dicyanoacetylene and vinylidene copolymers using organic compounds
[NASA-CASE-XNP-03250] c06 N71-23500
VIRUSES
Water system virus detection
[NASA-CASE-MSC-16098-1] c51 N77-24755
VISCOELASTICITY
Automated ball rebound resilience test equipment for determining viscoelastic properties of polymers
[NASA-CASE-XLA-08254] c14 N71-26161
Development and characteristics of parallel plate viscometer for determination of absolute viscosity of liquids and viscoelastic materials
[NASA-CASE-NPO-11387] c14 N73-14429
Shock absorbing mount for electrical components
[NASA-CASE-NPO-13253-1] c37 N75-18573
VISCOMETERS
Describing instrument capable of measuring true shear viscosity of liquids and viscoelastic materials
[NASA-CASE-XNP-09462] c14 N71-17584
Development and characteristics of parallel plate viscometer for determination of absolute viscosity of liquids and viscoelastic materials
[NASA-CASE-NPO-11387] c14 N73-14429
VISCOSITY
Low density and low viscosity magnetic propellant for use under zero gravity conditions
[NASA-CASE-XLE-01512] c12 N70-40124
VISCOUS DAMPING
Shock and vibration damping device using temperature sensitive solid amorphous polymers
[NASA-CASE-XAC-11225] c14 N69-27486
Design and operation of viscous pendulum damper
[NASA-CASE-XLA-02079] c12 N71-16894
Mercury filled pendulum damper for controlling bending vibration induced by wind effects
[NASA-CASE-LAR-10274-1] c14 N71-17626
VISIBILITY
Controlled visibility device for simulating poor visibility conditions in training pilots in instrument landing and flight procedures
[NASA-CASE-XFR-04147] c11 N71-10748
VISORS
Anti-fog composition --- for prevention of fogging on surfaces such as space helmet visors and windshields
[NASA-CASE-MSC-13530-2] c23 N75-14834
VISUAL ACUITY
Multiparameter vision testing apparatus
[NASA-CASE-MSC-13601-2] c54 N75-27759
VISUAL CONTROL
Visual target luminaires for retrofire attitude control
[NASA-CASE-XMS-12158-1] c31 N69-27499
VISUAL FIELDS
Automated visual sensitivity tester for determining visual field sensitivity and blind spot size
[NASA-CASE-ARC-10329-1] c05 N73-26072
Visual examination apparatus
[NASA-CASE-BE-ARC-10329-2] c52 N76-30793
Binocular device for displaying numerical information in field of view
[NASA-CASE-LAR-11782-1] c74 N77-20882
VISUAL PERCEPTION
High pressure liquid flow sight assembly for wide temperature range applications including cryogenic fluids
[NASA-CASE-XLE-02998] c14 N70-42074
VISUAL STIMULI
Reaction tester for testing reaction to light stimuli
[NASA-CASE-MSC-13604-1] c05 N73-13114
VOICE COMMUNICATION
Position locating system for remote aircraft using voice communication and digital signals
[NASA-CASE-GSC-10087-2] c21 N71-13958
Earth satellite relay station for frequency multiplexed voice transmission
[NASA-CASE-GSC-10118-1] c07 N71-24621
Voice operated receiving and transmitting system for use in protective suits
[NASA-CASE-KSC-10164] c07 N71-33108
Technique for recovery of voice data from heat damaged magnetic tape
[NASA-CASE-MSC-14219-1] c32 N74-27612
Filtering device --- removing electromagnetic noise from voice communication signals
[NASA-CASE-MFS-22729-1] c32 N76-21366
Real time analysis of voiced sounds
[NASA-CASE-NPO-13465-1] c32 N76-31372
VOICE DATA PROCESSING
Digital communication system
[NASA-CASE-MSC-13912-1] c32 N74-30524
VOLATILITY
Apparatus for determining volatile condensable material present in polymeric products
[NASA-CASE-XNP-09699] c06 N71-24607
VOLT-AMPERE CHARACTERISTICS
Simulating voltage-current characteristic curves of solar cell panel with different operational parameters
[NASA-CASE-XMS-01554] c10 N71-10578
The dc-to-dc converters employing staggered-phase power switches with two-loop control
[NASA-CASE-NPO-13512-1] c33 N77-10428
Cable fault locator
[NASA-CASE-KSC-10899-1] c33 N77-28394
VOLTAGE AMPLIFIERS
Increasing power conversion efficiency of electronic amplifiers by power supply switching
[NASA-CASE-XMS-00945] c09 N71-10798
Bootstrap unloading circuits for sampling transducer voltage sources without drawing current
[NASA-CASE-XNP-09768] c09 N71-12516
RC networks with voltage amplifier, RC input circuit, and positive feedback
[NASA-CASE-ARC-10020] c10 N72-17172
Wide range analog to digital converter with variable gain amplifier
[NASA-CASE-NPO-11018] c08 N72-21200
VOLTAGE CONVERTERS (DC TO DC)
Regulated dc-to-dc converter for voltage step-up or step-down with input-output isolation
[NASA-CASE-HQN-10792-1] c33 N74-11049
The dc-to-dc converters employing staggered-phase power switches with two-loop control
[NASA-CASE-NPO-13512-1] c33 N77-10428

Inrush current limiter
[NASA-CASE-GSC-11789-1] c33 N77-14333
A regulated high efficiency, lightweight capacitor-diode multiplier DC to DC converter
[NASA-CASE-LEW-12791-1] c33 N77-24385
Phase substitution of spare converter for a failed one of parallel phase staggered converters
[NASA-CASE-NPO-13812-1] c33 N77-30365

VOLTAGE GENERATORS
Pulsed energy power system for application of combustible gases to turbine controlling ac voltage generator
[NASA-CASE-MSC-13112] c03 N71-11057
Biotelemetry apparatus with dual voltage generators for implanting in animals
[NASA-CASE-XAC-05706] c05 N71-12342
Transistorized circuit for producing multiple slope voltage sweep
[NASA-CASE-XMS-03542] c09 N71-28926
Inductive-capacitive loops as load insensitive power converters
[NASA-CASE-ERC-10268] c09 N72-25252

VOLTAGE REGULATORS
Regulated dc to dc converter
[NASA-CASE-XGS-03429] c03 N69-21330
Power control switching circuit using low voltage semiconductor controlled rectifiers for high voltage isolation
[NASA-CASE-XNP-02713] c10 N69-39888
Automatic measuring and recording of gain and zero drift characteristics of electronic amplifier
[NASA-CASE-XMS-05562-1] c09 N69-39986
Automatic control of voltage supply to direct current motor
[NASA-CASE-XMS-04215-1] c09 N69-39987
Design, development, and operating principles of power supply with starting circuit which is independent of voltage regulator
[NASA-CASE-XMS-01991] c09 N71-21449
High voltage divider system for attenuating high voltages to convenient levels suitable for introduction to measuring circuits
[NASA-CASE-XLE-02008] c09 N71-21583
Power supply with overload protection for series stage transistor
[NASA-CASE-XMS-00913] c10 N71-23543
Voltage controlled, variable frequency relaxation oscillator with MOSFET variable current feed
[NASA-CASE-GSC-10022-1] c10 N71-25882
Design and development of buck-boost voltage regulator circuit with additive or subtractive alternating current impressed on variable direct current source voltage
[NASA-CASE-GSC-10735-1] c10 N71-26085
Voltage range selection apparatus for sensing and applying voltages to electronic instruments without loading signal source
[NASA-CASE-XMS-06497] c14 N71-26244
Dissipative voltage regulator system for minimizing heat dissipation
[NASA-CASE-GSC-10891-1] c10 N71-26626
Power point tracker for maintaining optimal output voltage of power source
[NASA-CASE-GSC-10376-1] c14 N71-27407
Microwave power divider for providing variable output power to output waveguide in fixed waveguide system
[NASA-CASE-NPO-11031] c07 N71-33606
Relay controlled voltage switching unit for scanning circuitry of star tracker
[NASA-CASE-NPO-11253] c09 N72-17157
Switching type voltage regulator with relatively simple circuit arrangement
[NASA-CASE-LEW-11005-1] c09 N72-21243
Inductive-capacitive loops as load insensitive power converters
[NASA-CASE-ERC-10268] c09 N72-25252
Regulated dc-to-dc converter for voltage step-up or step-down with input-output isolation
[NASA-CASE-HQN-10792-1] c33 N74-11049
Overvoltage protection network
[NASA-CASE-ARC-10197-1] c33 N74-17929
Low distortion automatic phase control circuit --- voltage controlled phase shifter
[NASA-CASE-MFS-21671-1] c33 N74-22885
Voltage monitoring system
[NASA-CASE-KSC-10736-1] c33 N75-19521
A regulated high efficiency, lightweight capacitor-diode multiplier DC to DC converter
[NASA-CASE-LEW-12791-1] c33 N77-24385

VOLTMETERS
Voltage monitoring system
[NASA-CASE-KSC-10736-1] c33 N75-19521

VOLUMETRIC ANALYSIS
Volumetric direct nuclear pumped laser
[NASA-CASE-LAR-12183-1] c36 N77-21424

VOMITING
Venting device for pressurized space suit helmet to eliminate vomit expelled by crewmen
[NASA-CASE-XMS-09652-1] c05 N71-26333

VORTEX BREAKDOWN
Wingtip vortex dissipator for aircraft
[NASA-CASE-LAR-11645-1] c02 N77-10001

VORTEX GENERATORS
Multiple vortex amplifier system as fluid valve
[NASA-CASE-XNP-04709] c15 N71-15609
Smokestack mounted airfoil
[NASA-CASE-LAR-11669-1] c34 N76-13419
Vortex attenuation method --- for multi-engine aircraft
[NASA-CASE-LAR-12034-1] c02 N77-22045
Vortex generator for controlling the dispersion of effluents in a flowing liquid
[NASA-CASE-LAR-12045-1] c34 N77-24423

VORTICES
Vortex-lift roll-control device
[NASA-CASE-LAR-11868-2] c08 N77-31176

VULCANIZING
Method for compression molding of thermosetting plastics utilizing a temperature gradient across the plastic to cure the article
[NASA-CASE-LAR-10489-1] c31 N74-18124

W

WAFERS
Separation of semiconductor wafer into chips bounded by scribe lines
[NASA-CASE-ERC-10138] c26 N71-14354
An improved method and apparatus for use in examining the lattice of a semiconductor wafer by X-ray diffraction
[NASA-CASE-MFS-23315-1] c76 N76-32029

WALL TEMPERATURE
Thermocouple apparatus for measuring wall temperatures in regeneratively cooled rocket engines having thin walled cooling passages
[NASA-CASE-XLE-05230-2] c14 N73-13417
Structural heat pipe --- for spacecraft wall thermal insulation system
[NASA-CASE-GSC-11619-1] c34 N75-12222

WALLS
Metal ribbon wrapped outer wall for regeneratively cooled combustion chamber
[NASA-CASE-XLE-00164] c15 N70-36411

WARNING SYSTEMS
Alarm system design for monitoring one or more relay circuits
[NASA-CASE-XMS-10984-1] c10 N71-19417
Unsaturating magnetic core transformer design with warning signal for electrical power processing equipment
[NASA-CASE-ERC-10125] c09 N71-24893
Electrical failure detector in solid rocket propellant motor insulation against thermal degradation by fuel grain
[NASA-CASE-XMF-03968] c14 N71-27186
Device for generating and controlling combustion products for testing of fire detection system
[NASA-CASE-GSC-11095-1] c14 N72-10375
Vertically stacked collinear array of independently fed omnidirectional antennas for use in collision warning systems on commercial aircraft
[NASA-CASE-LAR-10545-1] c09 N72-21244
Development and operating principles of collision warning system for aircraft accident prevention
[NASA-CASE-HQN-10703] c21 N73-13643
Pilot warning indicator system of intruder aircraft
[NASA-CASE-ERC-10226-1] c14 N73-16483
Silent alarm system for mutiple room facility or school

[NASA-CASE-NPO-11307-1] c10 N73-30205
Development and characteristics of electronic signalling system and data processing equipment for warning systems to avoid midair collisions between aircraft
[NASA-CASE-LAR-10717-1] c21 N73-30641
Inverter ratio failure detector
[NASA-CASE-NPO-13160-1] c35 N74-18090
Passive intrusion detection system
[NASA-CASE-NPO-13804-1] c35 N77-19390
WASTE DISPOSAL
Fecal waste disposal container
[NASA-CASE-MSS-06761] c05 N69-23192
Airlock for waste transferal from pressurized enclosure aboard space vehicle to waste receiver at negative pressure
[NASA-CASE-MFS-20922] c31 N72-20840
Pressurized tank for feeding liquid waste into processing equipment
[NASA-CASE-LAR-10365-1] c05 N72-27102
Reduced gravity fecal collector seat and urinal
[NASA-CASE-MFS-22102-1] c54 N74-20725
Airlock
[NASA-CASE-MFS-20922-1] c18 N74-22136
Automatic liquid inventory collecting and dispensing unit
[NASA-CASE-LAR-11071-1] c35 N75-19611
Automatic biowaste sampling
[NASA-CASE-MSC-14640-1] c54 N76-14804
A process of forming catalytic surfaces for oxidation reactions
[NASA-CASE-MSC-14831-1] c25 N76-23387
WASTE ENERGY UTILIZATION
Pyrolysis system and process --- recovering energy from solid wastes containing hydrocarbons
[NASA-CASE-MSC-12669-1] c44 N76-16621
WASTE WATER
Process for purification of waste water produced by a Kraft process pulp and paper mill
[NASA-CASE-NPO-13847-2] c85 N77-17949
Water system virus detection
[NASA-CASE-MSC-16098-1] c51 N77-24755
WATER
Variable water load for dissipating large amounts of electrical power during high voltage power supply tests
[NASA-CASE-XNP-05381] c09 N71-20842
Gas chromatographic method for determining water in nitrogen tetroxide rocket propellant
[NASA-CASE-NPO-10238] c06 N72-17094
Hydrogen rich gas generator
[NASA-CASE-NPO-13342-1] c37 N76-16446
Solar hydrogen generator
[NASA-CASE-LAR-11361-1] c44 N77-22607
Remote water monitoring system
[NASA-CASE-LAR-11973-1] c43 N77-28563
WATER FLOW
Potable water dispenser
[NASA-CASE-MFS-21115-1] c54 N74-12779
WATER INJECTION
Reentry communication by injection of water droplets into plasma layer surrounding space vehicle
[NASA-CASE-XLA-01552] c07 N71-11284
WATER LANDING
Parachute system for lowering manned spacecraft from post-reentry to ocean landing
[NASA-CASE-XLA-00195] c02 N70-38009
Spacecraft design with single point aerodynamic and hydrodynamic stability for emergency transport of men from space station to splashdown
[NASA-CASE-MSC-13281] c31 N72-18859
WATER MANAGEMENT
Description of electrical equipment and system for purification of waste water by producing silver ions for bacterial control
[NASA-CASE-MSC-10960-1] c03 N71-24718
Solar-powered pump
[NASA-CASE-NPO-13567-1] c44 N76-29701
WATER POLLUTION
Utilization of solar radiation by solar still for converting salt and brackish water into potable water
[NASA-CASE-XMS-04533] c15 N71-23086
Portable tester for monitoring bacterial contamination by adenosine triphosphate light reaction
[NASA-CASE-GSC-10879-1] c14 N72-25413
WATER RECLAMATION
Potable water reclamation from human wastes in zero-G environment
[NASA-CASE-XLA-03213] c05 N71-11207
Iodine generator for reclaimed water purification
[NASA-CASE-MSC-14632-1] c54 N75-25594
Water system virus detection
[NASA-CASE-MSC-16098-1] c51 N77-24755
WATER TEMPERATURE
Differential thermopile for measuring cooling water temperature rise
[NASA-CASE-XAC-00812] c14 N71-15598
WATER TREATMENT
Description of electrical equipment and system for purification of waste water by producing silver ions for bacterial control
[NASA-CASE-MSC-10960-1] c03 N71-24718
Method of preparing water purification membranes --- polymerization of allyl amine as thin films in plasma discharge
[NASA-CASE-ARC-10643-1] c25 N75-12087
Water purification process
[NASA-CASE-ARC-10643-2] c51 N75-13506
Iodine generator for reclaimed water purification
[NASA-CASE-MSC-14632-1] c54 N75-25594
Air removal device --- for purification of water under zero gravity conditions
[NASA-CASE-XLA-8914-2] c34 N76-23522
Process for purification of waste water produced by a Kraft process pulp and paper mill
[NASA-CASE-NPO-13847-2] c85 N77-17949
A reverse osmosis membrane of high urea rejection properties
[NASA-CASE-ARC-10980-1] c27 N77-18265
Water system virus detection
[NASA-CASE-MSC-16098-1] c51 N77-24755
WATER VAPOR
Equipment for measuring partial water vapor pressure in gas tank
[NASA-CASE-XMS-01618] c14 N71-20741
WATERPROOFING
Glass-to-metal seals comprising relatively high expansion metals
[NASA-CASE-LEW-10698-1] c37 N74-21063
WAVE AMPLIFICATION
Distributed feedback acoustic surface wave oscillator
[NASA-CASE-NPO-13673-1] c71 N77-26919
WAVE FRONT RECONSTRUCTION
Recording and reconstructing focused image holograms
[NASA-CASE-ERC-10017] c16 N71-15567
WAVE GENERATION
Wind tunnel air flow modulating device and apparatus for selectively generating wave motion in wind tunnel airstream
[NASA-CASE-XLA-00112] c11 N70-33287
Linear sawtooth voltage wave generator with transistor timing circuit having capacitor and zener diode feedback loops
[NASA-CASE-XMS-01315] c09 N70-41675
Sign wave generation simulator for variable amplitude, frequency, damping, and phase pulses for oscilloscope display
[NASA-CASE-NPO-10251] c10 N71-27365
Wideband generator for producing sine wave quadrature and second harmonic of input signal
[NASA-CASE-NPO-11133] c10 N72-20223
Material suspension within an acoustically excited resonant chamber --- at near weightless conditions
[NASA-CASE-NPO-13263-1] c12 N75-24774
WAVE REFLECTION
Surface defect detection by reflected microwave radiation pattern
[NASA-CASE-ARC-10009-1] c15 N71-17822
Millimeter wave antenna system for spacecraft use
[NASA-CASE-GSC-10949-1] c07 N71-28965
WAVE SCATTERING
Device and method for determining X ray reflection efficiency, scattering properties, and surface finish of optical surfaces
[NASA-CASE-MFS-20243] c23 N73-13662
WAVEFORMS
Variable frequency magnetic coupled multivibrator with output signal of constant amplitude and waveform
[NASA-CASE-XGS-00131] c09 N70-38995

Cathode ray oscilloscope for analyzing electrical waveforms representing amplitude distribution of time function
[NASA-CASE-XNP-01383] c09 N71-10659
Peak polarity selector for monitoring waveforms
[NASA-CASE-ERC-10010] c10 N71-24862
Development of family of frequency to amplitude converters for frequency analysis of complex input signal waveforms
[NASA-CASE-MSC-12395] c09 N72-25257
Device for performing statistical time-series analysis of complex electrical signal waveforms
[NASA-CASE-MSC-12428-1] c10 N73-25240
Low distortion receiver for bi-level baseband PCM waveforms
[NASA-CASE-MSC-14557-1] c32 N76-16249
Lightning current waveform measuring system
[NASA-CASE-KSC-11018-1] c33 N77-21320
Speech analyzer
[NASA-CASE-GSC-11898-1] c32 N77-30309

WAVEGUIDE ANTENNAS
Planar array circularly polarized antenna with wall slot excitation
[NASA-CASE-NPO-10301] c07 N72-11148
Dielectric loaded aperture antenna with directive radiation pattern from waveguide
[NASA-CASE-LAR-11084-1] c09 N73-12216

WAVEGUIDE FILTERS
Microwave power divider for providing variable output power to output waveguide in fixed waveguide system
[NASA-CASE-NPO-11031] c07 N71-33606

WAVEGUIDE WINDOWS
Broadband microwave waveguide window to compensate dielectric material filling
[NASA-CASE-XNP-08880] c09 N71-24808

WAVEGUIDES
Dual waveguide mode source for controlling amplitudes of two modes
[NASA-CASE-XNP-03134] c07 N71-10676
Design of folded traveling wave maser structure
[NASA-CASE-XNP-05219] c16 N71-15550
Quasi-optical microwave circuit with dielectric body for use with oversize waveguides
[NASA-CASE-ERC-10011] c07 N71-29065
Microwave waveguide mixer
[NASA-CASE-ERC-10179] c07 N72-20141
Waveguide, thin film window and microwave irises
[NASA-CASE-LAR-10513-1] c07 N72-25170
Development of thin film microwave iris installed in microwave waveguide transverse to flow of energy in waveguide
[NASA-CASE-LAR-10511-1] c09 N72-29172
Resonant waveguide stark cell --- using microwave spectrometers
[NASA-CASE-LAR-11352-1] c33 N75-26245
Diffused waveguiding capillary tube with distributed feedback for a gas laser
[NASA-CASE-NPO-13544-1] c36 N76-18428

WAVELENGTHS
Method and apparatus using temperature control for wavelength tuning of liquid lasers
[NASA-CASE-ERC-10187] c16 N69-31343
Multiple wavelength radiation measuring instrument for determining hot body or gas temperature
[NASA-CASE-XLE-00011] c14 N70-41946
Optical system for selecting particular wavelength light beams from multiple wavelength light source
[NASA-CASE-ERC-10248] c14 N72-17323
Development of radiant energy sensor to detect the radiant energy wavelength bands from portions of radiating body
[NASA-CASE-ERC-10174] c14 N72-25409
Dual wavelength system for monitoring film deposition
[NASA-CASE-MFS-20675] c26 N73-26751
Dual wavelength scanning Doppler velocimeter --- without perturbation of flow fields
[NASA-CASE-ARC-10637-1] c35 N75-16783
Diatomic infrared gasdynamic laser --- for producing different wavelengths
[NASA-CASE-ARC-10370-1] c36 N75-31426
Two wavelength double pulse tunable dye laser
[NASA-CASE-LAR-12012-1] c36 N77-10517

WEAR
High temperature resistant cermet and ceramic compositions --- for use in thermionic converters or diodes
[NASA-CASE-NPO-13690-1] c27 N76-13294

WEATHERPROOFING
Weatherproof helix antenna
[NASA-CASE-KSC-08485] c07 N71-19493

WEBS (SHEETS)
Method and apparatus for measuring web material wound on a reel
[NASA-CASE-GSC-11902-1] c38 N77-17495

WEBS (SUPPORTS)
Apparatus for assembling space structure
[NASA-CASE-MFS-23579-1] c12 N77-31213

WEDGES
Method and apparatus for splitting a beam of energy
[NASA-CASE-GSC-12083-1] c36 N76-15451
Two dimensional wedge/translating shroud nozzle
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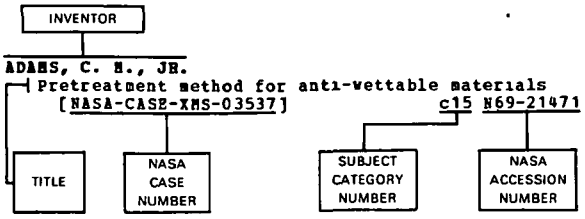

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[NASA-CASE-XNP-01185] c26 N73-28710
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HILKER, W. R.
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HILL, E. K.
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HILL, O. E.
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HILL, P. H.
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HILL, W. E.
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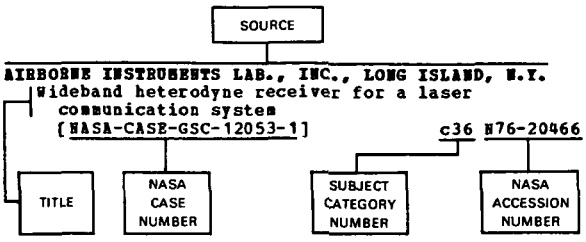

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Illumination system including a virtual light source Patent
[NASA-CASE-HQN-10781] c23 N71-30292
BAYLOR UNIV., HOUSTON, TEX.
EEG sleep analyzer and method of operation Patent
[NASA-CASE-MSC-13282-1] c05 N71-24729
Compressible biomedical electrode
[NASA-CASE-MSC-13648] c05 N72-27103
BECKMAN INSTRUMENTS, INC., ANAHEIM, CALIF.
Pressure modulating valve
[NASA-CASE-MSC-14905-1] c37 N77-28487
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Pulse activated polarographic hydrogen detector Patent
[NASA-CASE-XMF-06531] c14 N71-17575
Electronic divider and multiplier using photocells Patent
[NASA-CASE-XFR-05637] c09 N71-19480
Pulse generating circuit employing switch means on ends of delay line for alternately charging and discharging same Patent
[NASA-CASE-XNP-00745] c10 N71-28960
Gas operated actuator
[NASA-CASE-NFO-11340] c15 N72-33477
Specific wavelength colorimeter
[NASA-CASE-MSC-14081-1] c35 N74-27860
BECKMAN INSTRUMENTS, INC., SOUTH PASADENA, CALIF.
Pneumatic system for controlling and actuating pneumatic cyclic devices
[NASA-CASE-XMS-04843] c03 N69-21469
BECTON, DICKINSON AND CO., RUTHERFORD, N. J.
Vacuum probe surface sampler
[NASA-CASE-LAR-10623-1] c14 N73-30395
BELL AEROSPACE CO., BUFFALO, N. Y.
Modulator for tone and binary signals
[NASA-CASE-GSC-11743-1] c32 N75-24981
Correlation type phase detector
[NASA-CASE-GSC-11744-1] c33 N75-26243
BELL AEROSYSTEMS CO., BUFFALO, N. Y.
Lunar landing flight research vehicle Patent
[NASA-CASE-XFR-00929] c31 N70-34966
Flexibly connected support and skin Patent
[NASA-CASE-XLA-01027] c31 N71-24035
Injection head for delivering liquid fuel and oxidizers
[NASA-CASE-NFC-10046] c28 N72-17843
Flight control system
[NASA-CASE-MSC-13397-1] c21 N72-25595
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[NASA-CASE-ARC-11057-1] c27 N77-26308
BELLCOMM, INC., WASHINGTON, D. C.
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[NASA-CASE-HQN-10542-1] c74 N75-25706
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[NASA-CASE-MSC-11277] c09 N71-29008
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BENDIX CORP., DETROIT, MICH.
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[NASA-CASE-MFS-20400] c31 N71-18611
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[NASA-CASE-MFS-20242] c14 N73-19421
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[NASA-CASE-KSC-10278] c05 N72-16015
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[NASA-CASE-LAR-10061-1] c15 N72-31483
BENDIX RESEARCH LABS., SOUTHFIELD, MICH.
Image tube
[NASA-CASE-GSC-11602-1] c33 N74-21850
BOEING CO., COCOA BEACH, FLA.
Positive contact resistance soldering unit
[NASA-CASE-KSC-10242] c15 N72-23497
Variable resistance constant tension and lubrication device
[NASA-CASE-KSC-10723-1] c37 N75-13265
BOEING CO., HUNTSVILLE, ALA.
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[NASA-CASE-MFS-15063] c14 N72-25412
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[NASA-CASE-MFS-15162] c14 N72-32452
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[NASA-CASE-MSC-14180-1] c52 N76-14757
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Method of inhibiting stress corrosion cracks in titanium alloys Patent
[NASA-CASE-NFO-10271] c17 N71-16393
Strain sensor for high temperatures Patent
[NASA-CASE-XNP-09205] c14 N71-17657
Forming tool for ribbon or wire
[NASA-CASE-XLA-05966] c15 N72-12408
Solar cell assembly test method
[NASA-CASE-NFO-10401] c03 N72-20033
Thermal compression bonding of interconnectors
[NASA-CASE-GSC-10303] c15 N72-22487
Extrusion can
[NASA-CASE-NFO-10812] c15 N73-13464
Radiation sensitive solid state switch
[NASA-CASE-NFO-10817-1] c08 N73-30135
Miniature hydraulic actuator
[NASA-CASE-LAR-11522-1] c34 N74-34881
Plasma cleaning device
[NASA-CASE-MFS-22906-1] c75 N76-24001
Aircraft design concept
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[NASA-CASE-NFO-12107] c08 N71-27255
BROWN AND ROOT-NORTHROP, HOUSTON, TEX.
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[NASA-CASE-MSC-13530-2] c23 N75-14834
BROWN ENGINEERING CO., INC., HUNTSVILLE, ALA.
Air bearing Patent
[NASA-CASE-XMF-01887] c15 N71-10617
Collapsible nozzle extension for rocket engines Patent
[NASA-CASE-MFS-11497] c28 N71-16224
Inspection gage for boss Patent
[NASA-CASE-XMF-04966] c14 N71-17658
Method of recording a gas flow pattern Patent
[NASA-CASE-XMF-01779] c12 N71-20815
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[NASA-CASE-XMF-00684] c21 N71-21688

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[NASA-CASE-XMF-04042] c15 N71-23023
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[NASA-CASE-XNP-02792] c14 N71-28958
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[NASA-CASE-XNP-02982] c31 N70-41855
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[NASA-CASE-XNP-08907] c23 N71-29123
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[NASA-CASE-LAR-10728-1] c14 N73-12445
Low gravity phase separator
[NASA-CASE-MSC-14773-1] c31 N75-32262
Resistive anode image converter
[NASA-CASE-HQN-10876-1] c33 N76-27473
Automatic multiple-sample applicator and electrophoresis apparatus
[NASA-CASE-ARC-10991-1] c25 N77-12157
Process for preparing higher oxides of the alkali and alkaline earth metals
[NASA-CASE-ARC-10992-1] c25 N77-17178
CALIFORNIA UNIV., LOS ANGELES.
Continuous plasma light source
[NASA-CASE-XNP-04167-2] c25 N72-24753
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[NASA-CASE-XNP-04167-3] c36 N77-19416
CARBORUNDUM CO., NIAGARA FALLS, N. Y.
Ceramic filter insulating material and methods of producing same
[NASA-CASE-MSC-14795-1] c27 N76-15314
CATHOLIC UNIV. OF AMERICA, WASHINGTON, D. C.
Electromagnetic wave energy converter
[NASA-CASE-GSC-11394-1] c09 N73-32109
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[NASA-CASE-XLA-00189] c33 N70-36846
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[NASA-CASE-XLA-00188] c15 N71-22874
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[NASA-CASE-MSC-16299-1] c45 N77-31668
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[NASA-CASE-MFS-14253] c33 N71-24858
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[NASA-CASE-XMF-04132] c15 N69-27502
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[NASA-CASE-GSC-10667-1] c10 N71-33129
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[NASA-CASE-MSC-12389] c33 N71-29052
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[NASA-CASE-GSC-10786-1] c10 N72-28241
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[NASA-CASE-LEW-12465-1] c72 N76-27967
COMPREHENSIVE DESIGNERS, INC., SHERMAN OAKS, CALIF.
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[NASA-CASE-NPO-11366] c11 N73-26238
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Test fixture for pellet-like electrical elements
[NASA-CASE-XNP-06032] c09 N69-21926
Support structure for irradiated elements Patent
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Penetrating radiation system for detecting the amount of liquid in a tank Patent
[NASA-CASE-MSC-12280] c27 N71-16348
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[NASA-CASE-MSC-12669-1] c44 N76-16621
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[NASA-CASE-HQN-10638-1] c15 N73-30460
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[NASA-CASE-XMS-04312] c07 N71-22984
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[NASA-CASE-XMF-01973] c31 N70-41588
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[NASA-CASE-XMF-02654] c10 N70-42032
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[NASA-CASE-XNP-06914] c15 N71-21489
Artificial gravity spin deployment system Patent
[NASA-CASE-XNP-02595] c31 N71-21881
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[NASA-CASE-XNP-01848] c15 N71-28959
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[NASA-CASE-HQN-10792-1] c33 N74-11049

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[NASA-CASE-XNP-01263-2] c15 N71-26312
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Electric battery and method for operating same Patent
[NASA-CASE-XGS-01674] c03 N71-29129
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[NASA-CASE-XNP-03332] c09 N71-10618
Electrolytically regenerative hydrogen-oxygen fuel cell Patent
[NASA-CASE-XLE-04526] c03 N71-11052
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[NASA-CASE-LEW-10393-1] c17 N71-15468
Soil particles separator, collector and viewer Patent
[NASA-CASE-XNF-09770] c15 N71-20440

Particle detection apparatus including a ballistic pendulum Patent
[NASA-CASE-XMS-04201] c14 N71-22990
Polarity sensitive circuit Patent
[NASA-CASE-XNP-00952] c10 N71-23271
Ion engine casing construction and method of making same Patent
[NASA-CASE-XNP-06942] c28 N71-23293
Material handling device Patent
[NASA-CASE-XNP-09770-3] c11 N71-27036
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Drying apparatus for photographic sheet material
[NASA-CASE-GSC-11074-1] c14 N73-28489
ESB, INC., RALEIGH, N. C.
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[NASA-CASE-NPO-11806-1] c44 N74-19693
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[NASA-CASE-GSC-10441-1] c14 N71-27325
Space simulation and radiative property testing system and method Patent
[NASA-CASE-MFS-20096] c14 N71-30026
Thermal control system for a spacecraft modular housing
[NASA-CASE-GSC-11018-1] c31 N73-30829
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Method for attaching a fused-quartz mirror to a conductive metal substrate
[NASA-CASE-MFS-23405-1] c26 N77-29260
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[NASA-CASE-XNP-07659] c06 N71-22975
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[NASA-CASE-HQN-10841-1] c73 N75-22108
Safety flywheel
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Decomposition unit Patent
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Relief valve
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Portable environmental control system Patent
[NASA-CASE-XMS-09632-1] c05 N71-11203
Dual latching solenoid valve Patent
[NASA-CASE-XMS-05890] c09 N71-23191
Water management system and an electrolytic cell therefor Patent
[NASA-CASE-MSC-10960-1] c03 N71-24718
Low cycle fatigue testing machine
[NASA-CASE-LAR-10270-1] c32 N72-25877
Process for separation of dissolved hydrogen from water by use of palladium and process for coating palladium with palladium black
[NASA-CASE-MSC-13335-1] c06 N72-31140
Flexible joint for pressurizable garment
[NASA-CASE-MSC-11072] c54 N74-32546
Gas compression analysis
[NASA-CASE-MSC-14757-1] c37 N76-13496
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[NASA-CASE-XNP-02588] c15 N71-18613
Pressure transducer calibrator Patent
[NASA-CASE-XNP-01660] c14 N71-23036
Plating nickel on aluminum castings Patent
[NASA-CASE-XNP-04148] c17 N71-24830
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[NASA-CASE-XNP-05612] c09 N69-21468
Separation nut Patent
[NASA-CASE-XGS-01971] c15 N71-15922
Zero gravity separator Patent
[NASA-CASE-XLE-00586] c15 N71-15968
Catalyst cartridge for carbon dioxide reduction unit
[NASA-CASE-LAR-10551-1] c25 N74-12813
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[NASA-CASE-MFS-22991-1] c34 N77-10463
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[NASA-CASE-XNP-03930] c14 N69-24331
Method and apparatus for attaching physiological monitoring electrodes Patent
[NASA-CASE-XFR-07658-1] c05 N71-26293
Driving lamps by induction
[NASA-CASE-MFS-21214-1] c09 N73-30181
GENERAL ELECTRIC CO., CINCINNATI, OHIO.
Dual output variable pitch turbofan actuation system
[NASA-CASE-LEW-12419-1] c07 N77-14025
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[NASA-CASE-LEW-12760-1] c07 N77-17059
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[NASA-CASE-LEW-12550-1] c24 N77-19170
Oil cooling system for a gas turbine engine
[NASA-CASE-LEW-12830-1] c07 N77-23106
Blade retainer assembly
[NASA-CASE-LEW-12608-1] c07 N77-27116
Platform for a swing root turbomachinery blade
[NASA-CASE-LEW-12312-1] c07 N77-32148
Deformable bearing seat
[NASA-CASE-LEW-12527-1] c37 N77-32500
Bearing seat usable in a gas turbine engine
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Compton scatter attenuation gamma ray spectrometer
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Inverter ratio failure detector
[NASA-CASE-NPO-13160-1] c35 N74-18090
Electrophoretic sample insertion
[NASA-CASE-MFS-21395-1] c25 N74-26948
Apparatus for conducting flow electrophoresis in the substantial absence of gravity
[NASA-CASE-MFS-21394-1] c34 N74-27744
Multiparameter vision testing apparatus
[NASA-CASE-MSC-13601-2] c54 N75-27759
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Method of making a cermet Patent
[NASA-CASE-LEW-10219-1] c18 N71-28729
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Remote manipulator system
[NASA-CASE-MFS-22022-1] c37 N76-15460
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[NASA-CASE-GSC-12075-1] c32 N77-31350
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[NASA-CASE-LEW-12906-1] c26 N77-32279
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[NASA-CASE-MFS-21931-1] c37 N75-26372
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[NASA-CASE-LEW-12619-1] c24 N77-19171
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[NASA-CASE-IGS-01593] c03 N70-35408
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[NASA-CASE-GSC-11533-1] c14 N73-13435
Arterial pulse wave pressure transducer
[NASA-CASE-GSC-11531-1] c52 N74-27566
GIANNINI SCIENTIFIC CORP., SANTA ANA, CALIF.
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[NASA-CASE-ARC-10266-1] c33 N75-29318
Combination automatic-starting electrical plasma torch and gas shutoff valve
[NASA-CASE-XLE-10717] c37 N75-29426
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[NASA-CASE-GSC-11514-1] c03 N72-24037
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[NASA-CASE-XLE-03803-2] c15 N71-17651
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Panelized high performance multilayer insulation Patent
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[NASA-CASE-IMS-09652-1] c05 N71-26333
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[NASA-CASE-XNP-04067] c08 N71-22707
Error correcting method and apparatus Patent
[NASA-CASE-XNP-02748] c08 N71-22749
Counter and shift register Patent
[NASA-CASE-XNP-01753] c08 N71-22897
Friction measuring apparatus Patent
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Hybrid lubrication system and bearing Patent
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Filler valve Patent
[NASA-CASE-XNP-01747] c15 N71-23024
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Reduced bandwidth video communication system utilizing sampling techniques Patent
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Drive circuit utilizing two cores Patent
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Time of flight mass spectrometer with feedback means from the detector to the ion source and a specific counter Patent
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Connector internal force gauge Patent
[NASA-CASE-XNP-03918] c14 N71-23087
Circulator having quarter wavelength resonant post and parametric amplifier circuits utilizing the same Patent
[NASA-CASE-XNP-02140] c09 N71-23097
Method of resolving clock synchronization error and means therefor Patent
[NASA-CASE-XNP-08875] c10 N71-23099
Impact testing machine Patent
[NASA-CASE-XNP-04817] c14 N71-23225
Zeta potential flowmeter Patent
[NASA-CASE-XNP-06509] c14 N71-23226
Comparator for the comparison of two binary numbers Patent
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Indexing microwave switch Patent
[NASA-CASE-XNP-06507] c09 N71-23548
Millimeter wave radiometer for radio astronomy Patent
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High speed phase detector Patent
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Apparatus for testing polymeric materials Patent
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Signal processing apparatus for multiplex transmission Patent
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Self-testing and repairing computer Patent
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Serial digital decoder Patent
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Decoder system Patent
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Switching circuit Patent
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Magnetic power switch Patent
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Demodulator filter Patent
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Broadband microwave waveguide window Patent
[NASA-CASE-XNP-08880] c09 N71-24808
Cavity radiometer Patent
[NASA-CASE-XNP-08961] c14 N71-24809
High-gain, broadband traveling wave maser Patent
[NASA-CASE-NPO-10548] c16 N71-24831
Fluid containers and resealable septum therefor Patent
[NASA-CASE-NPO-10123] c15 N71-24835
Temperature telemetric transmitter Patent
[NASA-CASE-NPO-10649] c07 N71-24840
Tuning arrangement for an electron discharge device or the like Patent
[NASA-CASE-XNP-09771] c09 N71-24841
Noise limiter Patent
[NASA-CASE-NPO-10169] c10 N71-24844
Noninterruptable digital counting system Patent
[NASA-CASE-XNP-09759] c08 N71-24891
Drive circuit for minimizing power consumption in inductive load Patent
[NASA-CASE-NPO-10716] c09 N71-24892
Space simulator Patent
[NASA-CASE-NPO-10141] c11 N71-24964
Process for reducing secondary electron emission Patent
[NASA-CASE-XNP-09469] c24 N71-25555
Minimal logic block encoder Patent
[NASA-CASE-NPO-10595] c10 N71-25917
Novel polycarboxylic prepolymeric materials and polymers thereof Patent
[NASA-CASE-NPO-10596] c06 N71-25929
Current steering switch Patent
[NASA-CASE-XNP-08567] c09 N71-26000
Dual polarity full wave dc motor drive Patent
[NASA-CASE-XNP-07477] c09 N71-26092
High impact antenna Patent
[NASA-CASE-NPO-10231] c07 N71-26101
Video communication system and apparatus Patent
[NASA-CASE-XNP-06611] c07 N71-26102
Parallel generation of the check bits of a PN sequence Patent
[NASA-CASE-XNP-04623] c10 N71-26103
Phase multiplying electronic scanning system Patent
[NASA-CASE-NPO-10302] c10 N71-26142
Electron beam tube containing a multiple cathode array employing indexing means for cathode substitution Patent
[NASA-CASE-NPO-10625] c09 N71-26182
Fluid phase analyzer Patent
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Variable frequency nuclear magnetic resonance spectrometer Patent
[NASA-CASE-XNP-09830] c14 N71-26266
Time synchronization system utilizing moon reflected coded signals Patent
[NASA-CASE-NPO-10143] c10 N71-26326
Broadband stable power multiplier Patent
[NASA-CASE-XNP-10854] c10 N71-26331
Cascaded complementary pair broadband transistor amplifiers Patent
[NASA-CASE-NPO-10003] c10 N71-26415
Digital memory in which the driving of each word location is controlled by a switch core Patent
[NASA-CASE-XNP-01466] c10 N71-26434
Conically shaped cavity radiometer with a dual purpose cone winding Patent
[NASA-CASE-XNP-09701] c14 N71-26475
Analog signal integration and reconstruction system Patent
[NASA-CASE-NPO-10344] c10 N71-26544
Rapid sync acquisition system Patent
[NASA-CASE-NPO-10214] c10 N71-26577
Cryogenic cooling system Patent
[NASA-CASE-NPO-10467] c23 N71-26654

Vacuum evaporator with electromagnetic ion steering Patent
[NASA-CASE-NPO-10331] c09 N71-26701
Automated fluid chemical analyzer Patent
[NASA-CASE-XNP-09451] c06 N71-26754
Material handling device Patent
[NASA-CASE-XNP-09770-3] c11 N71-27036
Pressure seal Patent
[NASA-CASE-NPO-10796] c15 N71-27068
Multiducted electromagnetic pump Patent
[NASA-CASE-NPO-10755] c15 N71-27084
Peak acceleration limiter for vibrational tester Patent
[NASA-CASE-NPO-10556] c14 N71-27185
Thin film capacitive bolometer and temperature sensor Patent
[NASA-CASE-NPO-10667] c09 N71-27232
Black body cavity radiometer Patent
[NASA-CASE-NPO-10810] c14 N71-27323
Video signal enhancement system with dynamic range compression and modulation index expansion Patent
[NASA-CASE-NPO-10343] c07 N71-27341
Force-balanced, throttle valve Patent
[NASA-CASE-NPO-10808] c15 N71-27432
Cavity emitter for thermionic converter Patent
[NASA-CASE-NPO-10412] c09 N71-28421
Frictionless universal joint Patent
[NASA-CASE-NPO-10646] c15 N71-28467
Epoxy-aziridine polymer product Patent
[NASA-CASE-NPO-10701] c06 N71-28620
Fluid impervious barrier including liquid metal alloy and method of making same Patent
[NASA-CASE-XNP-08881] c17 N71-28747
Wind tunnel microphone structure Patent
[NASA-CASE-XNP-00250] c11 N71-28779
Trialkyl-dialoctantalum and niobium compounds Patent
[NASA-CASE-XNP-04023] c06,N71-28808
Digital memory sense amplifying means Patent
[NASA-CASE-XNP-01012] c08 N71-28925
Digital filter for reducing sampling jitter in digital control systems Patent
[NASA-CASE-NPO-11088] c08 N71-29034
Method and apparatus for aligning a laser beam projector Patent
[NASA-CASE-NPO-11087] c23 N71-29125
Rubber composition for use with hydrazine Patent Application
[NASA-CASE-NPO-11433] c18 N71-31140
Rotable accurate reflector system for telscopes Patent
[NASA-CASE-NPO-10468] c23 N71-33229
Encoder/decoder system for a rapidly synchronizable binary code Patent
[NASA-CASE-NPO-10342] c10 N71-33407
High power microwave power divider Patent
[NASA-CASE-NPO-11031] c07 N71-33606
A dc servosystem including an ac motor Patent
[NASA-CASE-NPO-10700] c07 N71-33613
Solar cell matrix
[NASA-CASE-NPO-11190] c03 N71-34044
Manually actuated heat pump
[NASA-CASE-NPO-10677] c05 N72-11084
Virtual wall slot circularly polarized planar array antenna
[NASA-CASE-NPO-10301] c07 N72-11148
System for controlling the operation of a variable signal device
[NASA-CASE-NPO-11064] c07 N72-11150
Method and apparatus for data compression by a decreasing slope threshold test
[NASA-CASE-NPO-10769] c08 N72-11171
Apparatus for remote measurement of displacement of marks on a specimen undergoing a tensile test
[NASA-CASE-NPO-10778] c14 N72-11364
Vibration isolation system using compression springs
[NASA-CASE-NPO-11012] c15 N72-11391
Feed system for an ion thruster
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Thermostatic actuator
[NASA-CASE-NPO-10637] c15 N72-12409
High voltage transistor amplifier with constant current load
[NASA-CASE-NPO-11023] c09 N72-17155
Reference voltage switching unit
[NASA-CASE-NPO-11253] c09 N72-17157
Valving device for automatic refilling in cryogenic liquid systems
[NASA-CASE-NPO-11177] c15 N72-17453
Expansible support means
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Modular encoder
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Transition tracking bit synchronization system
[NASA-CASE-NPO-10844] c07 N72-20140
Data compression system
[NASA-CASE-NPO-11243] c07 N72-20154
Digital quasi-exponential function generator
[NASA-CASE-NPO-11130] c08 N72-20176
Method and apparatus for high resolution spectral analysis
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Flow rate switch
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Electrical connector
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Wide band doubler and sine wave quadrature generator
[NASA-CASE-NPO-11133] c10 N72-20223
Signal phase estimator
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Optimal control system for an electric motor driven vehicle
[NASA-CASE-NPO-11210] c11 N72-20244
Impact energy absorbing system utilizing fracturable material
[NASA-CASE-NPO-10671] c15 N72-20443
Torsional disconnect unit
[NASA-CASE-NPO-10704] c15 N72-20445
Solid propellant rocket motor
[NASA-CASE-XNP-03282] c28 N72-20758
Shell side liquid metal boiler
[NASA-CASE-NPO-10831] c33 N72-20915
Method and apparatus for mapping planets
[NASA-CASE-NPO-11001] c07 N72-21118
Current steering commutator
[NASA-CASE-NPO-10743] c08 N72-21199
Automated equipotential plotter
[NASA-CASE-NPO-11134] c09 N72-21246
Pressure transducer
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Positioning mechanism
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Solid state matrices
[NASA-CASE-NPO-10591] c03 N72-22041
Solar cell panels with light transmitting plate
[NASA-CASE-NPO-10747] c03 N72-22042
Data multiplexer using tree switching configuration
[NASA-CASE-NPO-11333] c08 N72-22162
System for quantizing graphic displays
[NASA-CASE-NPO-10745] c08 N72-22164
Digital function generator
[NASA-CASE-NPO-11104] c08 N72-22165
Analog-to-digital converter analyzing system
[NASA-CASE-NPO-10560] c08 N72-22166
Feedback shift register with states decomposed into cycles of equal length
[NASA-CASE-NPO-11082] c08 N72-22167
Self-obturating, gas operated launcher
[NASA-CASE-NPO-11013] c11 N72-22247
Optical binocular scanning apparatus
[NASA-CASE-NPO-11002] c14 N72-22441
Ionene membrane separator
[NASA-CASE-NPO-11091] c18 N72-22567
Deployable solar cell array
[NASA-CASE-NPO-10883] c31 N72-22874
Thermal to electrical power conversion system with solid-state switches with Seebeck effect compensation
[NASA-CASE-NPO-11388] c03 N72-23048
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[NASA-CASE-NPO-11458] c28 N72-23810
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[NASA-CASE-NPO-11322] c06 N72-25146
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Multi-purpose antenna employing dish reflector with plural coaxial horn feeds
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Communications link for computers
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Method and apparatus for frequency-division multiplex communications by digital phase shift of carrier
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Binary coded sequential acquisition ranging system
[NASA-CASE-NPO-11194] c08 N72-25209
MCD 2 sequential function generator for multibit binary sequence
[NASA-CASE-NPO-10636] c08 N72-25210
Digital video display system using cathode ray tube
[NASA-CASE-NPO-11342] c09 N72-25248
Inverter oscillator with voltage feedback
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Two phase flow system with discrete impinging two-phase jets
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Light direction sensor
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Maser for frequencies in the 7-20 GHz range
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Thin film temperature sensor and method of making same
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Circularly polarized antenna
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Singly-curved reflector for use in high-gain antennas
[NASA-CASE-NPO-11361] c07 N72-32169
Digital slope threshold data compressor
[NASA-CASE-NPO-11630] c08 N72-33172
Continuously variable voltage controlled phase shifter
[NASA-CASE-NPO-11129] c09 N72-33204
Pseudonoise sequence generators with three tap linear feedback shift registers
[NASA-CASE-NPO-11406] c08 N73-12175
Versatile arithmetic unit for high speed sequential decoder
[NASA-CASE-NPO-11371] c08 N73-12177
Dual frequency microwave reflex feed
[NASA-CASE-NPO-13091-1] c09 N73-12214
Audio system with means for reducing noise effects
[NASA-CASE-NPO-11631] c10 N73-12244
Interferometer-polarimeter
[NASA-CASE-NPO-11239] c14 N73-12446
Irradiance measuring device
[NASA-CASE-NPO-11493] c14 N73-12447
Program for computer aided reliability estimation
[NASA-CASE-NPO-13086-1] c15 N73-12495
Apparatus for deriving synchronizing pulses from pulses in a single channel PCM communications system
[NASA-CASE-NPO-11302-1] c07 N73-13149
Rotary vane attenuator wherein rotor has orthogonally disposed resistive and dielectric cards
[NASA-CASE-NPO-11418-1] c14 N73-13420
Gas flow control device
[NASA-CASE-NPO-11479] c15 N73-13462

Electrolytic gas operated actuator
[NASA-CASE-NPO-11369] c15 N73-13467
Dual purpose momentum wheels for spacecraft with magnetic recording
[NASA-CASE-NPO-11481] c21 N73-13644
Multiple reflection conical microwave antenna
[NASA-CASE-NPO-11661] c07 N73-14130
Cyclically operable optical shutter
[NASA-CASE-NPO-10758] c14 N73-14427
Heat detection and compositions and devices therefor
[NASA-CASE-NPO-10764-1] c14 N73-14428
Parallel-plate viscometer with double diaphragm suspension
[NASA-CASE-NPO-11387] c14 N73-14429
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[NASA-CASE-NPO-12106] c09 N73-15235
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Data-aided carrier tracking loops
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Stacked solar cell arrays
[NASA-CASE-NPO-11771] c03 N73-20040
A m-ary linear feedback shift register with binary logic
[NASA-CASE-NPO-11868] c10 N73-20254
Apparatus for recovering matter adhered to a host surface
[NASA-CASE-NPO-11213] c15 N73-20514
Scan converting video tape recorder
[NASA-CASE-NPO-10166-1] c07 N73-22076
Collapsible structure for an antenna reflector
[NASA-CASE-NPO-11751] c07 N73-24176
Pump for delivering heated fluids
[NASA-CASE-NPO-11417] c15 N73-24513
Ion thruster with a combination keeper electrode and electron baffle
[NASA-CASE-NPO-11880] c28 N73-24783
Solid propellant rocket motor
[NASA-CASE-NPO-11559] c28 N73-24784
Code regenerative clean-up loop transponder for a mu-type ranging system
[NASA-CASE-NPO-11707] c07 N73-25161
Numerical computer peripheral interactive device with manual controls
[NASA-CASE-NPO-11497] c08 N73-25206
Radiant source tracker independent of nonconstant irradiance
[NASA-CASE-NPO-11686] c14 N73-25462
Two carrier communication system with single transmitter
[NASA-CASE-NPO-11548] c07 N73-26118
High pulse rate high resolution optical radar system
[NASA-CASE-NPO-11426] c07 N73-26119
Counting digital filters
[NASA-CASE-NPO-11821-1] c08 N73-26175
Automated attendance accounting system
[NASA-CASE-NPO-11456] c08 N73-26176
Low phase noise digital frequency divider
[NASA-CASE-NPO-11569] c10 N73-26229
Vehicle for use in planetary exploration
[NASA-CASE-NPO-11366] c11 N73-26238
Temperature control system with a pulse width modulated bridge
[NASA-CASE-NPO-11304] c14 N73-26430
Disconnect unit
[NASA-CASE-NPO-11330] c33 N73-26958
Filter for third order phase locked loops
[NASA-CASE-NPO-11981-1] c10 N73-27171
Receiver with an improved phase lock loop in a multichannel telemetry system with suppressed carrier
[NASA-CASE-NPO-11593-1] c07 N73-28014
Analog-to-digital converter
[NASA-CASE-XNP-00477] c08 N73-28045
Pseudonoise (PN) synchronization of data system with derivation of clock frequency from received signal for clocking receiver PN generator
[NASA-CASE-XNP-03623] c09 N73-28084
Apparatus and method for measuring the Seebeck coefficient and resistivity of materials
[NASA-CASE-NPO-11749] c14 N73-28486
Dual purpose optical instrument capable of simultaneously acting as spectrometer and

diffractometer
[NASA-CASE-XNP-05231] c14 N73-28491
Continuous magnetic flux pump
[NASA-CASE-XNP-01187] c15 N73-28516
Preparation of alkali metal dispersions
[NASA-CASE-XNP-08876] c17 N73-28573
Superconductive magnetic-field-trapping device
[NASA-CASE-XNP-01185] c26 N73-28710
Automatic carrier acquisition system
[NASA-CASE-NPO-11628-1] c07 N73-30113
Ferrofluidic solenoid
[NASA-CASE-NPO-11738-1] c09 N73-30185
Silent emergency alarm system for schools and the like
[NASA-CASE-NPO-11307-1] c10 N73-30205
RF-source resistance meters
[NASA-CASE-NPO-11291-1] c14 N73-30388
Event sequence detector
[NASA-CASE-NPO-11703-1] c10 N73-32144
Soil penetrometer
[NASA-CASE-XNP-05530] c14 N73-32321
Quadrupole mass filter with means to generate a noise spectrum exclusive of the resonant frequency of the desired ions to deflect stable ions
[NASA-CASE-XNP-04231] c14 N73-32325
Magnetic-flux pump
[NASA-CASE-XNP-01188] c15 N73-32361
Burrowing apparatus
[NASA-CASE-XNP-07169] c15 N73-32362
Electrostatically controlled heat shutter
[NASA-CASE-NPO-11942-1] c33 N73-32818
Method and apparatus for a single channel digital communications system
[NASA-CASE-NPO-11302-2] c32 N74-10132
Controlled oscillator system with a time dependent output frequency
[NASA-CASE-NPO-11962-1] c33 N74-10194
Low loss dichroic plate
[NASA-CASE-NPO-13171-1] c32 N74-11000
Image data rate converter having a drum with a fixed head and a rotatable head
[NASA-CASE-NPO-11659-1] c35 N74-11283
Monitoring atmospheric pollutants with a heterodyne radiometer transmitter-receiver
[NASA-CASE-NPO-11919-1] c35 N74-11284
Digital second-order phase-locked loop
[NASA-CASE-NPO-11905-1] c33 N74-12887
Automatic vehicle location system
[NASA-CASE-NPO-11850-1] c32 N74-12912
Thermomagnetic recording and magneto-optic playback system having constant intensity laser beam control
[NASA-CASE-NPO-11317-2] c36 N74-13205
Use of thin film light detector
[NASA-CASE-NPO-11432-2] c35 N74-15090
Temperature compensated digital inertial sensor
[NASA-CASE-NPO-13044-1] c35 N74-15094
Compact hydrogenator
[NASA-CASE-NPO-11682-1] c35 N74-15127
Short range laser obstacle detector
[NASA-CASE-NPO-11856-1] c36 N74-15145
System for stabilizing cable phase delay utilizing a coaxial cable under pressure
[NASA-CASE-NPO-13138-1] c33 N74-17927
Storage battery comprising negative plates of a wedge shaped configuration
[NASA-CASE-NPO-11806-1] c44 N74-19693
Gated compressor, distortionless signal limiter
[NASA-CASE-NPO-11820-1] c32 N74-19788
Apparatus for scanning the surface of a cylindrical body
[NASA-CASE-NPO-11861-1] c36 N74-20009
Decision feedback loop for tracking a polyphase modulated carrier
[NASA-CASE-NPO-13103-1] c32 N74-20811
Optically actuated two position mechanical mover
[NASA-CASE-NPO-13105-1] c37 N74-21060
Thin film gauge
[NASA-CASE-NPO-10617-1] c35 N74-22095
High isolation RF signal selection switches
[NASA-CASE-NPO-13081-1] c33 N74-22814
Single reflector interference spectrometer and drive system therefor
[NASA-CASE-NPO-11932-1] c35 N74-23040
Scanning nozzle plating system
[NASA-CASE-NPO-11758-1] c31 N74-23065
Rock sampling
[NASA-CASE-XNP-10007-1] c46 N74-23068
Rock sampling
[NASA-CASE-XNP-09755] c46 N74-23069
Miniature multichannel biotelemeter system
[NASA-CASE-NPO-13065-1] c52 N74-26625
Dispensing targets for ion beam particle generators
[NASA-CASE-NPO-13112-1] c73 N74-26767
Optically detonated explosive device
[NASA-CASE-NPO-11743-1] c28 N74-27425
High voltage, high current Schottky barrier solar cell
[NASA-CASE-NPO-13482-1] c44 N74-30448
Coherent receiver employing nonlinear coherence detection for carrier tracking
[NASA-CASE-NPO-11921-1] c32 N74-30523
Digital servo control of random sound test excitation
[NASA-CASE-NPO-11623-1] c71 N74-31148
Apparatus for forming drive belts
[NASA-CASE-NPO-13205-1] c31 N74-32917
Tool for use in lifting pin supported objects
[NASA-CASE-NPO-13157-1] c37 N74-32918
Preparing oxidizer coated metal fuel particles
[NASA-CASE-NPO-11975-1] c28 N74-33209
Geneva mechanism
[NASA-CASE-NPO-13281-1] c37 N75-13266
Method of producing a storage bulb for an atomic hydrogen maser
[NASA-CASE-NPO-13050-1] c36 N75-15029
Combined pressure regulator and shutoff valve
[NASA-CASE-NPO-13201-1] c37 N75-15050
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Method and apparatus for fluffing, separating, and clearing fibers
[NASA-CASE-LAR-11224-1] c37 N76-18456
Extreme temperature thermal control coating
[NASA-CASE-LAR-11756-1] c24 N76-26284
Hearing aid malfunction detection system
[NASA-CASE-MSC-14916-1] c33 N77-13335
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[NASA-CASE-MSC-16043-1] c37 N77-15397

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[NASA-CASE-HQN-10541-2] c15 N71-27135
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[NASA-CASE-HQN-10541-4] c16 N71-27183
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Fault tolerant clock apparatus utilizing a controlled minority of clock elements
[NASA-CASE-MSC-12531-1] c35 N75-30504

MCDONNELL AIRCRAFT CO., ST. LOUIS, MO.
Method for making a heat insulating and ablative structure
[NASA-CASE-XMS-01108] c15 N69-24322
Heat flux sensor assembly
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[NASA-CASE-XMS-01330] c37 N75-27376

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Heat transfer device
[NASA-CASE-MFS-22938-1] c34 N76-18374

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New polymers of perfluorobutadiene and method of manufacture Patent application
[NASA-CASE-NPO-10863] c06 N70-11251
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[NASA-CASE-NPO-10447] c06 N70-11252

MCDONNELL-DOUGLAS CORP., HUNTINGTON BEACH, CALIF.
Variable direction force coupler
[NASA-CASE-MFS-20317] c15 N73-13463
Potable water dispenser
[NASA-CASE-MFS-21115-1] c54 N74-12779
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[NASA-CASE-MFS-21163-1] c54 N74-17853
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[NASA-CASE-MFS-20922-1] c18 N74-22136
Device for monitoring a change in mass in varying gravimetric environments
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[NASA-CASE-MFS-21680-1] c18 N74-27397
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[NASA-CASE-MFS-21728-1] c35 N74-27865
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[NASA-CASE-MFS-21577-1] c19 N74-29410
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[NASA-CASE-MFS-22073-1] c33 N75-13139
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[NASA-CASE-LAR-11237-1] c35 N75-19612
Meter for use in detecting tension in straps having predetermined elastic characteristics
[NASA-CASE-MFS-22189-1] c35 N75-19615
Device for use in loading tension members
[NASA-CASE-MFS-21488-1] c14 N75-24794

MCDONNELL-DOUGLAS CORP., NEWPORT BEACH, CALIF.
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[NASA-CASE-XNP-04264] c03 N69-21337

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[NASA-CASE-NPO-10311] c31 N71-15643
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[NASA-CASE-NPO-10862] c06 N72-22107
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[NASA-CASE-NPO-10863-2] c06 N72-25152
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[NASA-CASE-LAR-11042-1] c33 N75-27252
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Reduction of blood serum cholesterol
[NASA-CASE-NPO-12119-1] c52 N75-15270

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[NASA-CASE-NPO-13568-1] c32 N76-21365

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Preparation of ordered poly /arylenesiloxane/ polymers
[NASA-CASE-XNP-10753] c06 N71-11237
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[NASA-CASE-XNP-03988] c15 N71-21403
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[NASA-CASE-MFS-21040-1] c06 N73-30098

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[NASA-CASE-MFS-22355-1] c23 N76-15268
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[NASA-CASE-MFS-14322] c08 N71-18692
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[NASA-CASE-MSC-13201-1] c07 N71-28429
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[NASA-CASE-MFS-21433] c09 N73-20232
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[NASA-CASE-GSC-11296-1] c23 N73-30666
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[NASA-CASE-MFS-22758-1] c70 N75-26789
Impact position detector for outer space particles
[NASA-CASE-GSC-11829-1] c35 N75-27331
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[NASA-CASE-MFS-22342-1] c33 N75-30428
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[NASA-CASE-GSC-11889-1] c35 N76-16393
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[NASA-CASE-MFS-22145-2] c75 N76-17951
Charge injection method and apparatus of producing large area electrets
[NASA-CASE-MFS-23186-1] c33 N76-23483
Readout electrode assembly for measuring biological impedance
[NASA-CASE-ARC-10816-1] c35 N76-24525
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[NASA-CASE-ARC-10448-3] c35 N77-14408
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[NASA-CASE-ARC-10900-1] c35 N77-24454

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[NASA-CASE-LEW-12569-1] c37 N77-24496
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[NASA-CASE-ERC-10276] c14 N73-26432
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[NASA-CASE-HQN-10832-1] c71 N74-21014
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[NASA-CASE-HQN-10841-1] c73 N75-22108
Physical correction filter for improving the optical quality of an image
[NASA-CASE-HQN-10542-1] c74 N75-25706
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[NASA-CASE-XHQ-02146] c18 N75-27040
Traveling wave solid state amplifier utilizing a semiconductor with negative differential mobility
[NASA-CASE-HQN-10069] c33 N75-27251
Vapor deposition apparatus
[NASA-CASE-HQN-10462] c25 N75-29192
System and method for tracking a signal source
[NASA-CASE-HQN-10880-1] c32 N75-30385
Resistive anode image converter
[NASA-CASE-HQN-10876-1] c33 N76-27473
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[NASA-CASE-HQN-10862-1] c44 N76-29699
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[NASA-CASE-XAR-03786] c09 N69-21313
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Cryogenic apparatus for measuring the intensity of magnetic fields
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Variable stiffness polymeric damper
[NASA-CASE-XAC-11225] c14 N69-27486
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[NASA-CASE-XAC-02970] c14 N69-39896
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[NASA-CASE-XAC-08981] c09 N69-39897
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[NASA-CASE-XAC-00812] c14 N71-15598
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High efficiency multivibrator Patent
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Inertial reference apparatus Patent
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Method and apparatus for continuously monitoring blood oxygenation, blood pressure, pulse rate and the pressure pulse curve utilizing an ear oximeter as transducer Patent
[NASA-CASE-XAC-05422] c04 N71-23185
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High intensity radiant energy pulse source having means for opening shutter when light flux has reached a desired level
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[NASA-CASE-ARC-10470-1] c02 N73-26005
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Visual examination apparatus
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Intumescent composition, foamed product prepared therewith, and process for making same
[NASA-CASE-ARC-10304-1] c18 N73-26572
Infrared tunable laser
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[NASA-CASE-ARC-10362-1] c14 N73-32326
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[NASA-CASE-ARC-10749-1] c23 N73-32542
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[NASA-CASE-ARC-10812-1] c07 N76-18131
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[NASA-CASE-ARC-10994-1] c52 N76-33835
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[NASA-CASE-ARC-11051-1] c27 N77-10201
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[NASA-CASE-ARC-10981-1] c35 N77-10498
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[NASA-CASE-ARC-10990-1] c04 N77-12031
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[NASA-CASE-ARC-10991-1] c25 N77-12157
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[NASA-CASE-ARC-10898-1] c35 N77-18417
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[NASA-CASE-ARC-10979-1] c09 N77-19076
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[NASA-CASE-ARC-11040-1] c24 N77-19173
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[NASA-CASE-ARC-10912-1] c34 N77-19353
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[NASA-CASE-ARC-10899-1] c60 N77-19760
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[NASA-CASE-ARC-10915-2] c27 N77-20256
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[NASA-CASE-ARC-11057-1] c27 N77-26308
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[NASA-CASE-ARC-11045-1] c05 N77-28111
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[NASA-CASE-ARC-11106-1] c05 N77-31130
Reduction of nitric oxide emissions from a combustor
[NASA-CASE-ARC-10814-2] c25 N77-31260
Twin-capacitive shaft angle encoder with analog output signal
[NASA-CASE-ARC-10897-1] c33 N77-31404
Anthropomorphic master/slave manipulator system
[NASA-CASE-ARC-10756-1] c54 N77-32721

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Window comparator
[NASA-CASE-FRC-10090-1] c33 N77-11296
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[NASA-CASE-FRC-10081-1] c37 N77-14477
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[NASA-CASE-FRC-10092-1] c05 N77-31135

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Method and apparatus for wavelength tuning of liquid lasers
[NASA-CASE-ERC-10187] c16 N69-31343
A method for the deposition of beta-silicon carbide by isoepitaxy
[NASA-CASE-ERC-10120] c26 N69-33482
Full flow with shut off and selective drainage control valve Patent application
[NASA-CASE-ERC-10208] c15 N70-10867
A method for selective gold diffusion of monolithic silicon devices and/or circuits Patent application
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[NASA-CASE-ERC-10019] c16 N71-15551
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[NASA-CASE-XER-09519] c14 N71-18483
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[NASA-CASE-ERC-10046] c10 N71-18722
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[NASA-CASE-XER-11019] c09 N71-23598
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[NASA-CASE-ERC-10075] c09 N71-24800
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[NASA-CASE-ERC-10178] c16 N71-24832
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[NASA-CASE-ERC-10001] c23 N71-24868
Unsaturating saturable core transformer Patent
[NASA-CASE-ERC-10125] c09 N71-24893
Leak detector wherein a probe is monitored with ultraviolet radiation Patent
[NASA-CASE-ERC-10034] c15 N71-24896
Method for detecting leaks in hermetically sealed containers Patent
[NASA-CASE-ERC-10045] c15 N71-24910
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[NASA-CASE-ERC-10090] c21 N71-24948
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[NASA-CASE-ERC-10088] c26 N71-25490
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[NASA-CASE-ERC-10032] c10 N71-25900
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[NASA-CASE-ERC-10020] c16 N71-26154
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[NASA-CASE-ERC-10022] c15 N71-26635
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[NASA-CASE-ERC-10033] c14 N71-26672
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[NASA-CASE-ERC-10013] c09 N71-26678
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[NASA-CASE-ERC-10113] c09 N71-27053
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[NASA-CASE-ERC-10044-1] c14 N71-27090
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[NASA-CASE-ERC-10065] c09 N71-27364
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[NASA-CASE-ERC-10097] c15 N71-28465
Color television systems using a single gun color cathode ray tube Patent
[NASA-CASE-ERC-10098] c09 N71-28618
Ion microprobe mass spectrometer for analyzing fluid materials Patent
[NASA-CASE-ERC-10014] c14 N71-28863
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[NASA-CASE-ERC-10150] c14 N71-28992
Device for measuring light scattering wherein the measuring beam is successively reflected between a pair of parallel reflectors Patent
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Quasi-optical microwave component Patent
[NASA-CASE-ERC-10011] c07 N71-29065
Multiple hologram recording and readout system Patent
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Plasma fluidic hybrid display Patent
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[NASA-CASE-ERC-10248] c14 N72-17323
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[NASA-CASE-ERC-10419] c21 N72-21631
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Rocket chamber leak test fixture
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[NASA-CASE-XFR-04104] c03 N70-42073
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[NASA-CASE-XFR-00756] c02 N71-13421
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[NASA-CASE-XFR-05421] c15 N71-22994
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[NASA-CASE-XFR-03802] c33 N71-23085
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[NASA-CASE-XFR-05302] c15 N71-23254
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Acoustical transducer calibrating system and apparatus
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Three-axis adjustable loading structure
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[NASA-CASE-FRC-10049-1] c04 N74-13420
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Very narrow band width receiver
[NASA-CASE-GSC-12142-1] c32 N77-20299
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Apparatus and method for determining the position of a radiant energy source
[NASA-CASE-GSC-12147-1] c35 N77-20410
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[NASA-CASE-GSC-12146-1] c33 N77-21322
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[NASA-CASE-GSC-12148-1] c32 N77-22314
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[NASA-CASE-GSC-12039-1] c51 N77-22794
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[NASA-CASE-GSC-12077-1] c35 N77-24455
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[NASA-CASE-GSC-11571-1] c36 N77-25499
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[NASA-CASE-GSC-11824-1] c33 N77-26386
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[NASA-CASE-GSC-12081-2] c52 N77-26796
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[NASA-CASE-GSC-12046-1] c52 N77-26797
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[NASA-CASE-GSC-12058-1] c74 N77-26942
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[NASA-CASE-GSC-12137-1] c32 N77-27272
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[NASA-CASE-GSC-12059-1] c35 N77-27366
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[NASA-CASE-GSC-11063-1] c37 N77-27400
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[NASA-CASE-GSC-12173-1] c52 N77-27693
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[NASA-CASE-GSC-12082-2] c52 N77-27694
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[NASA-CASE-GSC-12194-1] c20 N77-28219
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[NASA-CASE-GSC-12053-1] c32 N77-28346
Method and apparatus for producing an image from a transparent object
[NASA-CASE-GSC-11989-1] c74 N77-28932
A complementary DMOS-VMOS integrated circuit structure
[NASA-CASE-GSC-12190-1] c33 N77-29403
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[NASA-CASE-GSC-12263-1] c35 N77-29471
Pseudo noise code and data transmission method and apparatus
[NASA-CASE-GSC-12017-1] c32 N77-30308
Speech analyzer
[NASA-CASE-GSC-11898-1] c32 N77-30309
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[NASA-CASE-GSC-12225-1] c74 N77-30935
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[NASA-CASE-GSC-12075-1] c32 N77-31350
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[NASA-CASE-GSC-12111-2] c60 N77-31800
Method of treating the surface of a glass member
[NASA-CASE-GSC-12110-1] c27 N77-32308
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[NASA-CASE-GSC-11998-1] c34 N77-32413
Fluid sampling device
[NASA-CASE-GSC-12143-1] c35 N77-32456
Analog to digital converter for two-dimensional radiant energy array computers
[NASA-CASE-GSC-11839-3] c60 N77-32731
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Regulated dc to dc converter
[NASA-CASE-XGS-03029] c03 N69-21330
Apparatus for measuring swelling characteristics of membranes
[NASA-CASE-XGS-03665] c14 N69-21363
Tumbler system to provide random motion
[NASA-CASE-XGS-02437] c15 N69-21472
Automatic acquisition system for phase-lock loop
[NASA-CASE-XGS-04994] c09 N69-21543
Low power drain semi-conductor circuit
[NASA-CASE-XGS-04999] c09 N69-24317
Spacecraft battery seals
[NASA-CASE-XGS-03864] c15 N69-24320
Scanning aspect sensor employing an apertured disc and a commutator
[NASA-CASE-XGS-08266] c14 N69-27432
Monopulse system with an electronic scanner
[NASA-CASE-XGS-05582] c07 N69-27460
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[NASA-CASE-XGS-03095] c09 N69-27463
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[NASA-CASE-XGS-04480] c16 N69-27491
Time division multiplex system
[NASA-CASE-XGS-05918] c07 N69-39974
Doppler frequency spread correction device for multiplex transmissions
[NASA-CASE-XGS-02749] c07 N69-39978
Alkali-metal silicate protective coating
[NASA-CASE-XGS-04119] c18 N69-39979
Device for measuring electron-beam intensities and for subjecting materials to electron irradiation in an electron microscope
[NASA-CASE-XGS-01725] c14 N69-39982
Light sensitive digital aspect sensor Patent
[NASA-CASE-XGS-00359] c14 N70-34158
Method and apparatus for determining satellite orientation utilizing spatial energy sources Patent
[NASA-CASE-XGS-00466] c21 N70-34297
Binary magnetic memory device Patent
[NASA-CASE-XGS-00174] c08 N70-34743
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[NASA-CASE-XGS-00689] c08 N70-34787
Ultra-long monostable multivibrator employing bistable semiconductor switch to allow charging of timing circuit Patent
[NASA-CASE-XGS-00381] c09 N70-34819
Space and atmospheric reentry vehicle Patent
[NASA-CASE-XGS-00260] c31 N70-37924
Variable frequency magnetic multivibrator Patent
[NASA-CASE-XGS-00458] c09 N70-38604
Switching mechanism with energy storage means Patent
[NASA-CASE-XGS-00473] c03 N70-38713
Variable frequency magnetic multivibrator Patent
[NASA-CASE-XGS-00131] c09 N70-38995
Stretch de-spin mechanism Patent
[NASA-CASE-XGS-00619] c30 N70-40016
Folding boom assembly Patent
[NASA-CASE-XGS-00938] c32 N70-41367
Cryogenic connector for vacuum use Patent
[NASA-CASE-XGS-02441] c15 N70-41629
Endless tape cartridge Patent
[NASA-CASE-XGS-00769] c14 N70-41647
Apparatus for producing three-dimensional recordings of flourescence spectra Patent
[NASA-CASE-XGS-01231] c14 N70-41676
Method and apparatus for determining electromagnetic characteristics of large surface area passive reflectors Patent
[NASA-CASE-XGS-02608] c07 N70-41678
Prevention of pressure build-up in electrochemical cells Patent
[NASA-CASE-XGS-01419] c03 N70-41864
Variable time constant smoothing circuit Patent
[NASA-CASE-XGS-01983] c10 N70-41964
Endless tape transport mechanism Patent
[NASA-CASE-XGS-01223] c07 N71-10609
Reversible ring counter employing cascaded single SCR stages Patent
[NASA-CASE-XGS-01473] c09 N71-10673
Electronic beam switching commutator Patent
[NASA-CASE-XGS-01451] c09 N71-10677
Sun tracker with rotatable plane-parallel plate and two photocells Patent
[NASA-CASE-XGS-01159] c21 N71-10678
Non-magnetic battery case Patent
[NASA-CASE-XGS-00886] c03 N71-11053
Interconnection of solar cells Patent
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Frequency shift keyed demodulator Patent
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Bi-polar phase detector and corrector for split phase PCM data signals Patent

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Data processor having multiple sections activated at different times by selective power coupling to the sections Patent
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Position location and data collection system and method Patent
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Position sensing device employing misaligned magnetic field generating and detecting apparatus Patent
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Optical tracker having overlapping reticles on parallel axes Patent
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Ellipsoidal mirror reflectometer including means for averaging the radiation reflected from the sample Patent
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Angular position and velocity sensing apparatus Patent
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Apparatus for controlling the velocity of an electromechanical drive for interferometers and the like Patent
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Omni-directional anisotropic molecular trap Patent
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Pulse-type magnetic core memory element circuit with blocking oscillator feedback Patent
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Apparatus for measuring current flow Patent
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Synchronous counter Patent
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Apparatus for computing square roots Patent
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Method and apparatus for battery charge control Patent
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Stable amplifier having a stable quiescent point Patent
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Tracking antenna system Patent
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Electrochemical coulometer and method of forming same Patent
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Display for binary characters Patent
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Amplifier clamping circuit for horizon scanner Patent
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Signal detection and tracking apparatus Patent
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Polarization diversity monopulse tracking receiver Patent
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System for recording and reproducing pulse code modulated data Patent
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Nonmagnetic, explosive actuated indexing device Patent
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Conforming polisher for aspheric surface of revolution Patent
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Sealing device for an electrochemical cell Patent
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Rotary bead dropper and selector for testing micrometeorite detectors Patent
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Moment of inertia test fixture Patent
[NASA-CASE-XGS-01023] c14 N71-22992
Fluid flow meter with comparator reference means Patent
[NASA-CASE-XGS-01331] c14 N71-22996
Foamed in place ceramic refractory insulating material Patent
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Digital telemetry system Patent
[NASA-CASE-XGS-01812] c07 N71-23001
Bonded elastomeric seal for electrochemical cells Patent
[NASA-CASE-XGS-02631] c03 N71-23006
Apparatus providing a directive field pattern and attitude sensing of a spin stabilized satellite Patent
[NASA-CASE-XGS-02607] c31 N71-23009
Complementary regenerative switch Patent
[NASA-CASE-XGS-02751] c09 N71-23015
Solid state pulse generator with constant output width, for variable input width, in nanosecond range Patent
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Sidereal frequency generator Patent
[NASA-CASE-XGS-02610] c14 N71-23174
Solar cell and circuit array and process for nullifying magnetic fields Patent
[NASA-CASE-XGS-03390] c03 N71-23187
Passive synchronized spike generator with high input impedance and low output impedance and capacitor power supply Patent
[NASA-CASE-XGS-03632] c09 N71-23311
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Satellite communication system and method Patent
[NASA-CASE-GSC-10118-1] c07 N71-24621
Programmable telemetry system Patent
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Coulometer and third electrode battery charging circuit Patent
[NASA-CASE-GSC-10487-1] c03 N71-24719
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Annular slit colloid thrustor Patent
[NASA-CASE-GSC-10709-1] c28 N71-25213
Voltage to frequency converter Patent
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Direct current motor with stationary armature and field Patent
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Adaptive system and method for signal generation Patent
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Control apparatus for applying pulses of selectively predetermined duration to a sequence of loads Patent
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Method for generating ultra-precise angles Patent
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[NASA-CASE-GSC-10065-1] c10 N71-27136
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Gravity gradient attitude control system Patent
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Variable digital processor including a register for shifting and rotating bits in either direction Patent
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Combustion products generating and metering device
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Analog spatial maneuver computer
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Helical recorder arrangement for multiple channel recording on both sides of the tape
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Method and apparatus for eliminating coherent noise in a coherent energy imaging system without destroying spatial coherence
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Position location system and method
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Facsimile video remodulation network
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Frangible electrochemical cell
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Optimum performance spacecraft solar cell system
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Monostable multivibrator
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Roll alignment detector
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Cosmic dust sensor
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Solenoid valve including guide for armature and valve member
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A dc to ac to dc converter having transistor synchronous rectifiers
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Tungsten contacts on silicon substrates
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Electric motive machine including magnetic bearing
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Cosmic dust or other similar outer space particles impact location detector
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System for stabilizing torque between a balloon and gondola
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Data processor with conditionally supplied clock signals
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Star tracking reticles and process for the production thereof
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Signal-to-noise ratio determination circuit
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Nutation damper
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Low outgassing polydimethylsiloxane material and preparation thereof
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Method of detecting and counting bacteria in body fluids
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Protein sterilization method of firefly luciferase using reduced pressure and molecular sieves
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Process for making RF shielded cable connector assemblies and the products formed thereby
[NASA-CASE-GSC-11215-1] c09 N73-28083
Device for determining relative angular position between a spacecraft and a radiation emitting celestial body
[NASA-CASE-GSC-11444-1] c14 N73-28490
Microscope multi-angle, reflection, viewing adaptor and photographic recording system
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Automatic instrument for chemical processing to detect microorganism in biological samples by measuring light reactions
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Heat flow calorimeter
[NASA-CASE-GSC-11434-1] c34 N74-27859
Air conditioning system and component therefore distributing air flow from opposite directions
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Passive dual spin misalignment compensators
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Dish antenna having switchable beamwidth
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X-Y alphanumeric character generator for oscilloscopes
[NASA-CASE-GSC-11582-1] c33 N75-19517
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[NASA-CASE-GSC-11844-1] c33 N75-19522
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Self-regulating proportionally controlled heating apparatus and technique
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Low speed phaselock speed control system
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Modulator for tone and binary signals
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Radiation hardening of MOS devices by boron
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Correlation type phase detector
[NASA-CASE-GSC-11744-1] c33 N75-26243
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Impact position detector for outer space particles
[NASA-CASE-GSC-11829-1] c35 N75-27331
Binary to binary coded decimal converter
[NASA-CASE-GSC-12044-1] c60 N76-13781
Single frequency, two feed dish antenna having switchable beamwidth
[NASA-CASE-GSC-11968-1] c32 N76-15329
Micrometeoroid velocity and trajectory analyzer
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Method and apparatus for splitting a beam of energy
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High voltage distributor
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Axially and radially controllable magnetic bearing
[NASA-CASE-GSC-11551-1] c37 N76-18459
Two-dimensional radiant energy array computers and computing devices
[NASA-CASE-GSC-11839-2] c60 N76-18803
Apparatus for simulating optical transmission links
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Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide
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Camera arrangement
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Telemetry synchronizer
[NASA-CASE-GSC-11868-1] c17 N76-22245
Locking mechanism for orthopedic braces
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[NASA-CASE-GSC-12010-1] c33 N76-23482
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Improved low cost substrates for polycrystalline solar cells
[NASA-CASE-GSC-12022-2] c44 N76-26695
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[NASA-CASE-GSC-11924-1] c33 N76-27472
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Static coefficient test method and apparatus
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Digital plus analog output encoder
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Actuator mechanism
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Flow test device
[NASA-CASE-XMS-04917] c14 N69-24257
Visual target for retrofire attitude control
[NASA-CASE-XMS-12158-1] c31 N69-27499
System for monitoring signal amplitude ranges
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Rotational joint assembly for the prosthetic leg
[NASA-CASE-KSC-11004-1] c54 N77-30749

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Jet shoes
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Condenser - Separator
[NASA-CASE-XLA-08645] c15 N69-21465
Connector - Electrical
[NASA-CASE-XLA-01288] c09 N69-21470
A support technique for vertically oriented launch vehicles
[NASA-CASE-XLA-02704] c11 N69-21540
Electromagnetic mirror drive system
[NASA-CASE-XLA-03724] c14 N69-27461
Evaporant holder
[NASA-CASE-XLA-03105] c15 N69-27483
Compensating radiometer
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Tubular coupling having frangible connecting means
[NASA-CASE-XLA-02854] c15 N69-27490
Fatigue-resistant shear pin
[NASA-CASE-XLA-09122] c15 N69-27505
Ablation sensor
[NASA-CASE-XLA-01781] c14 N69-39975
Aeroflexible structures
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Transient-compensated SCR inverter
[NASA-CASE-XLA-08507] c09 N69-39984
Capacitor power pak Patent Application
[NASA-CASE-LAR-10367-1] c03 N70-26817
Disk pack cleaning table Patent Application
[NASA-CASE-LAR-10590-1] c15 N70-26819
Folding apparatus Patent
[NASA-CASE-XLA-00137] c15 N70-33180
Infrared scanner Patent
[NASA-CASE-XLA-00120] c21 N70-33181
Reentry vehicle leading edge Patent
[NASA-CASE-XLA-00165] c31 N70-33242
Motion picture camera for optical pyrometry Patent
[NASA-CASE-XLA-00062] c14 N70-33254
Variable sweep wing configuration Patent
[NASA-CASE-XLA-00230] c02 N70-33255
Variable sweep wing aircraft Patent
[NASA-CASE-XLA-00221] c02 N70-33266
Plasma accelerator Patent
[NASA-CASE-XLA-00675] c25 N70-33267
Survival couch Patent
[NASA-CASE-XLA-00118] c05 N70-33285
Landing arrangement for aerial vehicles Patent
[NASA-CASE-XLA-00142] c02 N70-33286
Wind tunnel airstream oscillating apparatus Patent
[NASA-CASE-XLA-00112] c11 N70-33287
Hydrofoil Patent
[NASA-CASE-XLA-00229] c12 N70-33305
High intensity heat and light unit Patent
[NASA-CASE-XLA-00141] c09 N70-33312
Particle detection apparatus Patent
[NASA-CASE-XLA-00135] c14 N70-33322
Runway light Patent
[NASA-CASE-XLA-00119] c11 N70-33329
Spherical solid-propellant rocket motor Patent
[NASA-CASE-XLA-00105] c28 N70-33331
Jet aircraft configuration Patent
[NASA-CASE-XLA-00087] c02 N70-33332
Aerial capsule emergency separation device Patent
[NASA-CASE-XLA-00115] c03 N70-33343
Nozzle Patent
[NASA-CASE-XLA-00154] c28 N70-33374
Air frame drag balance Patent
[NASA-CASE-XLA-00113] c14 N70-33386
Flexible foam erectable space structures Patent
[NASA-CASE-XLA-00686] c31 N70-34135
Nose gear steering system for vehicle with main skids Patent
[NASA-CASE-XLA-01804] c02 N70-34160
Surface roughness detector Patent
[NASA-CASE-XLA-00203] c14 N70-34161
Variable-span aircraft Patent
[NASA-CASE-XLA-00166] c02 N70-34178
Dynamic precession damper for spin stabilized vehicles Patent
[NASA-CASE-XLA-01989] c21 N70-34295
Erectable modular space station Patent
[NASA-CASE-XLA-00678] c31 N70-34296
Electric-arc heater Patent
[NASA-CASE-XLA-00330] c33 N70-34540
Ac power amplifier Patent Application
[NASA-CASE-LAR-10218-1] c09 N70-34559
Method and apparatus for producing a plasma Patent
[NASA-CASE-XLA-00147] c25 N70-34661
Gas actuated bolt disconnect Patent
[NASA-CASE-XLA-00326] c03 N70-34667
Logarithmic converter Patent
[NASA-CASE-XLA-00471] c08 N70-34778
Mandrel for shaping solid propellant rocket fuel into a motor casing Patent
[NASA-CASE-XLA-00304] c27 N70-34783
Impact simulator Patent
[NASA-CASE-XLA-00493] c11 N70-34786
Accelerometer with FM output Patent
[NASA-CASE-XLA-00492] c14 N70-34799
Frangible tube energy dissipation Patent
[NASA-CASE-XLA-00754] c15 N70-34850
Landing arrangement for aerial vehicle Patent
[NASA-CASE-XLA-00806] c02 N70-34858
Method and apparatus for shock protection Patent
[NASA-CASE-XLA-00482] c15 N70-36409
Inflatable honeycomb Patent
[NASA-CASE-XLA-00204] c32 N70-36536
Thermal control of space vehicles Patent
[NASA-CASE-XLA-01291] c33 N70-36617
Foam generator Patent
[NASA-CASE-XLA-00838] c03 N70-36778
Parachute glider Patent
[NASA-CASE-XLA-00898] c02 N70-36804
Production of high purity silicon carbide Patent
[NASA-CASE-XLA-00158] c26 N70-36805
Airplane take-off performance indicator Patent
[NASA-CASE-XLA-00100] c14 N70-36807
Aerodynamic measuring device Patent
[NASA-CASE-XLA-00481] c14 N70-36824
Aircraft wheel spray drag alleviator Patent
[NASA-CASE-XLA-01583] c02 N70-36825
Attitude orientation of spin-stabilized space vehicles Patent
[NASA-CASE-XLA-00281] c21 N70-36943
Continuously operating induction plasma accelerator Patent
[NASA-CASE-XLA-01354] c25 N70-36946
Check valve assembly for a probe Patent
[NASA-CASE-XLA-00128] c15 N70-37925
Space capsule Patent
[NASA-CASE-XLA-00149] c31 N70-37938
Sandwich panel construction Patent
[NASA-CASE-XLA-00349] c33 N70-37979
Reflector space satellite Patent
[NASA-CASE-XLA-00138] c31 N70-37981
Variable-geometry winged reentry vehicle Patent
[NASA-CASE-XLA-00241] c31 N70-37986
Vehicle parachute and equipment jettison system Patent
[NASA-CASE-XLA-00195] c02 N70-38009
Landing arrangement for aerospace vehicle Patent
[NASA-CASE-XLA-00805] c31 N70-38010
Antenna system using parasitic elements and two driven elements at 90 deg angle fed 180 deg out of phase Patent
[NASA-CASE-XLA-00414] c07 N70-38200
Despin weight release Patent
[NASA-CASE-XLA-00679] c15 N70-38601
Manned space station Patent
[NASA-CASE-XLA-00258] c31 N70-38676
Missile stage separation indicator and stage initiator Patent
[NASA-CASE-XLA-00791] c03 N70-39930
Apparatus for producing high purity silicon carbide crystals Patent
[NASA-CASE-XLA-02057] c26 N70-40015
Miniature vibration isolator Patent
[NASA-CASE-XLA-01019] c15 N70-40156
Aircraft instrument Patent
[NASA-CASE-XLA-00487] c14 N70-40157
Radiation direction detector including means for compensating for photocell aging Patent
[NASA-CASE-XLA-00183] c14 N70-40239
Passive communication satellite Patent
[NASA-CASE-XLA-00210] c30 N70-40309
Electrostatic plasma modulator for space vehicle re-entry communication Patent
[NASA-CASE-XLA-01400] c07 N70-41331
Micrometeoroid velocity measuring device Patent
[NASA-CASE-XLA-00495] c14 N70-41332
Method of obtaining permanent record of surface flow phenomena Patent
[NASA-CASE-XLA-01353] c14 N70-41366
Means for communicating through a layer of ionized gases Patent
[NASA-CASE-XLA-01127] c07 N70-41372
Quick release separation mechanism Patent
[NASA-CASE-XLA-01441] c15 N70-41679
Flexible wing deployment device Patent
[NASA-CASE-XLA-01220] c02 N70-41863
Self-sealing, unbonded, rocket motor nozzle closure Patent
[NASA-CASE-XLA-02651] c28 N70-41967
Fatigue testing device Patent
[NASA-CASE-XLA-02131] c32 N70-42003
Techniques for insulating cryogenic fuel containers Patent
[NASA-CASE-XLA-01967] c31 N70-42015
Double hinged flap Patent
[NASA-CASE-XLA-01290] c02 N70-42016
Spacecraft separation system for spinning vehicles and/or payloads Patent
[NASA-CASE-XLA-02132] c31 N71-10582
Method for molding compounds Patent
[NASA-CASE-XLA-01091] c15 N71-10672
Automatic force measuring system Patent
[NASA-CASE-XLA-02605] c14 N71-10773
Gas analyzer for bi-gaseous mixtures Patent
[NASA-CASE-XLA-01131] c14 N71-10774
Multiple input radio receiver Patent
[NASA-CASE-XLA-00901] c07 N71-10775

Rotating space station simulator Patent
[NASA-CASE-XLA-03127] c11 N71-10776
Composite powerplant and shroud therefor Patent
[NASA-CASE-XLA-01043] c28 N71-10780
All-directional fastener Patent
[NASA-CASE-XLA-01807] c15 N71-10799
Hot air ballon deceleration and recovery system Patent
[NASA-CASE-XLA-06824-2] c02 N71-11037
Control for flexible parawing Patent
[NASA-CASE-XLA-06958] c02 N71-11038
Variable sweep aircraft Patent
[NASA-CASE-XLA-03659] c02 N71-11041
Translating horizontal tail Patent
[NASA-CASE-XLA-08801-1] c02 N71-11043
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[NASA-CASE-XLA-05332] c05 N71-11194
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[NASA-CASE-LAR-10007-1] c05 N71-11195
Recovery of potable water from human wastes in below-G conditions Patent
[NASA-CASE-XLA-03213] c05 N71-11207
Process for interfacial polymerization of pyromellitic dianhydride and 1,2,4, 5-tetraamino-benzene Patent
[NASA-CASE-XLA-03104] c06 N71-11235
Imidazopyrrolone/imide copolymers Patent
[NASA-CASE-XLA-08802] c06 N71-11238
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[NASA-CASE-XLA-03076] c07 N71-11266
Reentry communication by material addition Patent
[NASA-CASE-XLA-01552] c07 N71-11284
Cooperative Doppler radar system Patent
[NASA-CASE-LAR-10403] c21 N71-11766
Supersonic aircraft Patent
[NASA-CASE-XLA-04451] c02 N71-12243
Umbilical disconnect Patent
[NASA-CASE-XLA-00711] c03 N71-12258
Remote controlled tubular disconnect Patent
[NASA-CASE-XLA-01396] c03 N71-12259
Backpack carrier Patent
[NASA-CASE-LAR-10056] c05 N71-12351
Optical communications system Patent
[NASA-CASE-XLA-01090] c07 N71-12389
Analog to digital converter Patent
[NASA-CASE-XLA-00670] c08 N71-12501
Integrated time shared instrumentation display Patent
[NASA-CASE-XLA-01952] c08 N71-12507
SCR blocking pulse gate amplifier Patent
[NASA-CASE-XLA-07497] c09 N71-12514
Minimum induced drag airfoil body Patent
[NASA-CASE-XLA-00755] c01 N71-13410
Minimum induced drag airfoil body Patent
[NASA-CASE-XLA-05828] c01 N71-13411
Mechanical stability augmentation system Patent
[NASA-CASE-XLA-06339] c02 N71-13422
Automatic balancing device Patent
[NASA-CASE-LAR-10774] c10 N71-13545
Quick release connector Patent
[NASA-CASE-XLA-01141] c15 N71-13789
Spacecraft experiment pointing and attitude control system Patent
[NASA-CASE-XLA-05464] c21 N71-14132
Pressurized cell micrometeroid detector Patent
[NASA-CASE-XLA-00936] c14 N71-14996
Crossed-field MHD plasma generator/ accelerator Patent
[NASA-CASE-XLA-03374] c25 N71-15562
Adjustable attitude guide device Patent
[NASA-CASE-XLA-07911] c15 N71-15571
Control system for rocket vehicles Patent
[NASA-CASE-XLA-01163] c21 N71-15582
Excessive temperature warning system Patent
[NASA-CASE-XLA-01926] c14 N71-15620
Alleviation of divergence during rocket launch Patent
[NASA-CASE-XLA-00256] c31 N71-15663
Space capsule Patent
[NASA-CASE-XLA-01332] c31 N71-15664
Variable geometry manned orbital vehicle Patent
[NASA-CASE-XLA-03691] c31 N71-15674
Payload/burned-out motor case separation system Patent
[NASA-CASE-XLA-05369] c31 N71-15687
Velocity package Patent
[NASA-CASE-XLA-01339] c31 N71-15692
File card marker Patent
[NASA-CASE-XLA-02705] c08 N71-15908
Hypersonic test facility Patent
[NASA-CASE-XLA-00378] c11 N71-15925
Test unit free-flight suspension system Patent
[NASA-CASE-XLA-00939] c11 N71-15926
Reduced gravity simulator Patent
[NASA-CASE-XLA-01787] c11 N71-16028
Method of coating carbonaceous base to prevent oxidation destruction and coated base Patent
[NASA-CASE-XLA-00284] c15 N71-16075
Method of coating carbonaceous base to prevent oxidation destruction and coated base Patent
[NASA-CASE-XLA-00302] c15 N71-16077
Separator Patent
[NASA-CASE-XLA-00415] c15 N71-16079
Omnidirectional multiple impact landing system Patent
[NASA-CASE-XLA-09881] c31 N71-16085
Flexible ring slosh damping baffle Patent
[NASA-CASE-LAR-10317-1] c32 N71-16103
Buoyant anti-slosh system Patent
[NASA-CASE-XLA-04605] c32 N71-16106
Detector panels-micrometeoroid impact Patent
[NASA-CASE-XLA-05906] c31 N71-16221
Wind velocity probing device and method Patent
[NASA-CASE-XLA-02081] c20 N71-16281
Vibrating structure displacement measuring instrument Patent
[NASA-CASE-XLA-03135] c32 N71-16428
Viscous-pendulum-damper Patent
[NASA-CASE-XLA-02079] c12 N71-16894
Leak detector Patent
[NASA-CASE-LAR-10323-1] c12 N71-17573
Logic AND gate for fluid circuits Patent
[NASA-CASE-XLA-07391] c12 N71-17579
Contour surveying system Patent
[NASA-CASE-XLA-08646] c14 N71-17586
Cable arrangement for rigid tethering Patent
[NASA-CASE-XLA-02332] c32 N71-17609
Thermal pump-compressor for space use Patent
[NASA-CASE-XLA-00377] c33 N71-17610
Viscous pendulum damper Patent
[NASA-CASE-LAR-10274-1] c14 N71-17626
Self supporting space vehicle Patent
[NASA-CASE-XLA-00117] c31 N71-17680
Technique for control of free-flight rocket vehicles Patent
[NASA-CASE-XLA-00937] c31 N71-17691
Hydraulic grip Patent
[NASA-CASE-XLA-05100] c15 N71-17696
Heat protection apparatus Patent
[NASA-CASE-XLA-00892] c33 N71-17897
Thermopile vacuum gage tube simulator Patent
[NASA-CASE-XLA-02758] c14 N71-18481
Ionization vacuum gauge with all but the end of the ion collector shielded Patent
[NASA-CASE-XLA-07424] c14 N71-18482
Safe-arm initiator Patent
[NASA-CASE-LAR-10372] c09 N71-18599
Controlled glass bead peening Patent
[NASA-CASE-XLA-07390] c15 N71-18616
Exclusive-Or digital logic module Patent
[NASA-CASE-XLA-07732] c08 N71-18751
Slosh alleviator Patent
[NASA-CASE-XLA-05749] c15 N71-19569
Dosimeter for high levels of absorbed radiation Patent
[NASA-CASE-XLA-03645] c14 N71-20430
Flow field simulation Patent
[NASA-CASE-LAR-11138] c12 N71-20436
Variable pulse width multiplier Patent
[NASA-CASE-XLA-02850] c09 N71-20447
Means for measuring the electron density gradients of the plasma sheath formed around a space vehicle Patent
[NASA-CASE-XLA-06232] c25 N71-20563
Null device for hand controller Patent
[NASA-CASE-XLA-01808] c15 N71-20740
Event recorder Patent
[NASA-CASE-XLA-01832] c14 N71-21006
Inflatable support structure Patent
[NASA-CASE-XLA-01731] c32 N71-21045
Fast opening diaphragm Patent
[NASA-CASE-XLA-03660] c15 N71-21060
Ellipsograph for pantograph Patent
[NASA-CASE-XLA-03102] c14 N71-21079
Random function tracer Patent
[NASA-CASE-XLA-01401] c15 N71-21179

Method and apparatus for bonding a plastics sleeve cnto a metallic body Patent
[NASA-CASE-XLA-01262] c15 N71-21404
Hypersonic test facility Patent
[NASA-CASE-XLA-05378] c11 N71-21475
Multilegged support system Patent
[NASA-CASE-XLA-01326] c11 N71-21481
Nacelle afterbody for jet engines Patent
[NASA-CASE-XLA-10450] c28 N71-21493
Canister closing device Patent
[NASA-CASE-XLA-01446] c15 N71-21528
Ablation sensor Patent
[NASA-CASE-XLA-01794] c33 N71-21586
Self-repeating plasma generator having communicating annular and linear arc discharge passages Patent
[NASA-CASE-XLA-03103] c25 N71-21693
Attitude control and damping system for spacecraft Patent
[NASA-CASE-XLA-02551] c21 N71-21708
Method of making inflatable honeycomb Patent
[NASA-CASE-XLA-03492] c15 N71-22713
Lunar penetrometer Patent
[NASA-CASE-XLA-00934] c14 N71-22765
Thermal control wall panel Patent
[NASA-CASE-XLA-01243] c33 N71-22792
Attitude sensor for space vehicles Patent
[NASA-CASE-XLA-00793] c21 N71-22880
Omnidirectional microwave spacecraft antenna Patent
[NASA-CASE-XLA-03114] c09 N71-22888
Thermal control panel Patent
[NASA-CASE-XLA-07728] c33 N71-22890
Spacecraft airlock Patent
[NASA-CASE-XLA-02050] c31 N71-22968
Station keeping of a gravity gradient stabilized satellite Patent
[NASA-CASE-XLA-03132] c31 N71-22969
Semi-linear ball bearing Patent
[NASA-CASE-XLA-02809] c15 N71-22982
Heat sensing instrument Patent
[NASA-CASE-XLA-01551] c14 N71-22989
Ablation sensor Patent
[NASA-CASE-XLA-01791] c14 N71-22991
Self-calibrating displacement transducer Patent
[NASA-CASE-XLA-00781] c09 N71-22999
Lateral displacement system for separated rocket stages Patent
[NASA-CASE-XLA-04804] c31 N71-23008
Thermal control coating Patent
[NASA-CASE-XLA-01995] c18 N71-23047
Method of making an inflatable panel Patent
[NASA-CASE-XLA-03497] c15 N71-23052
Variable duration pulse integrator Patent
[NASA-CASE-XLA-01219] c10 N71-23084
Impact energy absorber Patent
[NASA-CASE-XLA-01530] c14 N71-23092
Micrometeoroid penetration measuring device Patent
[NASA-CASE-XLA-00941] c14 N71-23240
Combined optical attitude and altitude indicating instrument Patent
[NASA-CASE-XLA-01907] c14 N71-23268
Solar sensor having coarse and fine sensing with matched preirradiated cells and method of selecting cells Patent
[NASA-CASE-XLA-01584] c14 N71-23269
Variable width pulse integrator Patent
[NASA-CASE-XLA-03356] c10 N71-23315
Leading edge curvature based on convective heating Patent
[NASA-CASE-XLA-01486] c01 N71-23497
Measurement of time differences between luminous events Patent
[NASA-CASE-XLA-01987] c23 N71-23976
Method for measuring the characteristics of a gas Patent
[NASA-CASE-XLA-03375] c16 N71-24074
Laser grating interferometer Patent
[NASA-CASE-XLA-04295] c16 N71-24170
Automatic fatigue test temperature programmer Patent
[NASA-CASE-XLA-02059] c33 N71-24276
Ring wing tension vehicle Patent
[NASA-CASE-XLA-04901] c31 N71-24315
Process for applying black coating to metals Patent
[NASA-CASE-XLA-06199] c15 N71-24875
Velocity limiting safety system Patent
[NASA-CASE-XLA-07473] c15 N71-24895
Strain coupled servo control system Patent
[NASA-CASE-XLA-08530] c32 N71-25360
Method of temperature compensating semiconductor strain gages Patent
[NASA-CASE-XLA-04555-1] c14 N71-25892
Method for improving the signal-to-noise ratio of the Wheatstone bridge type bolometer Patent
[NASA-CASE-XLA-02810] c14 N71-25901
Method of plating copper on aluminum Patent
[NASA-CASE-XLA-08966-1] c17 N71-25903
Laser calibrator Patent
[NASA-CASE-XLA-03410] c16 N71-25914
Thermal protection ablation spray system Patent
[NASA-CASE-XLA-04251] c18 N71-26100
Direct lift control system Patent
[NASA-CASE-LAR-10249-1] c02 N71-26110
Light shield and infrared reflector for fatigue testing Patent
[NASA-CASE-XLA-01782] c14 N71-26136
Dual resonant cavity absorption cell Patent
[NASA-CASE-LAR-10305] c14 N71-26137
Resilience testing device Patent
[NASA-CASE-XLA-08254] c14 N71-26161
Precipitation detector Patent
[NASA-CASE-XLA-02619] c10 N71-26334
Instrument for measuring the dynamic behavior of liquids Patent
[NASA-CASE-XLA-05541] c12 N71-26387
Arbitrarily shaped model survey system Patent
[NASA-CASE-LAR-10098] c32 N71-26681
Dielectric molding apparatus Patent
[NASA-CASE-LAR-10121-1] c15 N71-26721
Method of making a solid propellant rocket motor Patent
[NASA-CASE-XLA-04126] c28 N71-26779
Dynamic vibration absorber Patent
[NASA-CASE-LAR-10083-1] c15 N71-27006
Rate augmented digital to analog converter Patent
[NASA-CASE-XLA-07828] c08 N71-27057
High speed flight vehicle control Patent
[NASA-CASE-XLA-08967] c02 N71-27088
Suspended mass impact damper Patent
[NASA-CASE-LAR-10193-1] c15 N71-27146
Active vibration isolator for flexible bodies Patent
[NASA-CASE-LAR-10106-1] c15 N71-27169
Soldering device Patent
[NASA-CASE-XLA-08911] c15 N71-27214
Fringe counter for interferometers Patent
[NASA-CASE-LAR-10204] c14 N71-27215
Wideband VCO with high phase stability Patent
[NASA-CASE-XLA-03893] c10 N71-27271
Plural position switch status and operativeness checker Patent
[NASA-CASE-XLA-08799] c10 N71-27272
Angular displacement indicating gas bearing support system Patent
[NASA-CASE-XLA-09346] c15 N71-28740
Solid state thermal control polymer coating Patent
[NASA-CASE-XLA-01745] c33 N71-28903
Specialized halogen generator for purification of water Patent
[NASA-CASE-XLA-08913] c14 N71-28933
Optical communications system Patent
[NASA-CASE-XLA-01090] c16 N71-28963
Antenna design for surface wave suppression Patent
[NASA-CASE-XLA-10772] c07 N71-28980
Analog to digital converter tester Patent
[NASA-CASE-XLA-06713] c14 N71-28991
Method of making pressurized panel Patent
[NASA-CASE-XLA-08916] c15 N71-29018
Maksutov spectrograph Patent
[NASA-CASE-XLA-10402] c14 N71-29041
Two component bearing Patent
[NASA-CASE-XLA-00013] c15 N71-29136
Digital pulse width selection circuit Patent
[NASA-CASE-XLA-07788] c09 N71-29139
Magnetically controlled plasma accelerator Patent
[NASA-CASE-XLA-00327] c25 N71-29184
Boring bar drive mechanism Patent
[NASA-CASE-XLA-03661] c15 N71-33518
Wind tunnel model damper Patent
[NASA-CASE-XLA-09480] c11 N71-33612
Variable geometry rotor system
[NASA-CASE-LAR-10557] c02 N72-11018
Flared tube strainer
[NASA-CASE-XLA-05056] c15 N72-11389

Impact measuring technique
[NASA-CASE-LAR-10913] c14 N72-16282
Technique of duplicating fragile core
[NASA-CASE-XLA-07829] c15 N72-16329
Tube fabricating process
[NASA-CASE-LAR-10203-1] c15 N72-16330
Air bearing
[NASA-CASE-MLP-10002] c15 N72-17451
Extensometer frame
[NASA-CASE-XLA-10322] c15 N72-17452
Split range transducer
[NASA-CASE-XLA-11189] c10 N72-20222
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[NASA-CASE-LAR-10176-1] c14 N72-20380
Radar calibration sphere
[NASA-CASE-XLA-11154] c07 N72-21117
Recorder using selective noise filter
[NASA-CASE-ERC-10112] c07 N72-21119
Stacked array of omnidirectional antennas
[NASA-CASE-LAR-10545-1] c09 N72-21244
Electro-mechanical sine/cosine generator
[NASA-CASE-LAR-10503-1] c09 N72-21248
Fast scan control for deflection type mass spectrometers
[NASA-CASE-LAR-10766-1] c14 N72-21432
Lathe tool bit and holder for machining fiberglass materials
[NASA-CASE-XLA-10470] c15 N72-21489
Pressure operated electrical switch responsive to a pressure decrease after a pressure increase
[NASA-CASE-LAR-10137-1] c09 N72-22204
Variable geometry wind tunnels
[NASA-CASE-XLA-07430] c11 N72-22246
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[NASA-CASE-LAR-10496-1] c14 N72-22437
Star image motion compensator
[NASA-CASE-LAR-10523-1] c14 N72-22444
Absolute focus lock for microscopes
[NASA-CASE-LAR-10184] c14 N72-22445
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[NASA-CASE-XMF-01452] c15 N70-41371
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[NASA-CASE-XMF-01813] c28 N70-41582
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[NASA-CASE-XMF-01772] c11 N70-41677
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[NASA-CASE-XMF-01371] c15 N70-41829
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[NASA-CASE-XMF-01899] c31 N70-41948
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[NASA-CASE-MFS-20074] c16 N71-15565
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[NASA-CASE-XMF-03287] c15 N71-15607
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[NASA-CASE-XMF-02964] c14 N71-17659
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[NASA-CASE-MFS-14772] c15 N71-17692
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[NASA-CASE-XMF-01016] c26 N71-17818
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[NASA-CASE-XMF-07488] c11 N71-18773
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[NASA-CASE-MFS-20410] c15 N71-19214
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[NASA-CASE-XMF-04680] c15 N71-19489
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[NASA-CASE-MFS-10555] c11 N71-19494
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Evaporant source for vapor deposition Patent
[NASA-CASE-XMF-06065] c15 N71-20395
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[NASA-CASE-XMF-08523] c31 N71-20396
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[NASA-CASE-XMF-01599] c09 N71-20705
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Method of producing alternating ether siloxane copolymers Patent
[NASA-CASE-XMF-02584] c06 N71-20905
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[NASA-CASE-XMF-01402] c18 N71-21651
Portable milling tool Patent
[NASA-CASE-XMF-03511] c15 N71-22799
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[NASA-CASE-XMF-10040] c15 N71-22877
Continuous detonation reaction engine Patent
[NASA-CASE-XMF-06926] c28 N71-22983
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[NASA-CASE-XMF-03290] c15 N71-23256
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[NASA-CASE-XMF-10289] c14 N71-23699
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[NASA-CASE-XMF-05224] c14 N71-23726
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[NASA-CASE-XMF-04134] c14 N71-23755
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[NASA-CASE-XMF-02330] c15 N71-23798
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[NASA-CASE-XMF-06888] c15 N71-24044
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[NASA-CASE-XMF-10968] c14 N71-24234
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[NASA-CASE-XMF-02392] c32 N71-24285
Internal flare angle gauge Patent
[NASA-CASE-XMF-04415] c14 N71-24693
Pulse rise time and amplitude detector Patent
[NASA-CASE-XMF-08804] c09 N71-24717
System for maintaining a motor at a predetermined speed utilizing digital feedback means Patent
[NASA-CASE-XMF-06892] c09 N71-24805
Power system with heat pipe liquid coolant lines Patent
[NASA-CASE-MFS-14114-2] c09 N71-24807
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[NASA-CASE-XMF-03793] c15 N71-24833
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[NASA-CASE-XMF-06617] c09 N71-24843
Transistor servo system including a unique differential amplifier circuit Patent
[NASA-CASE-XMF-05195] c10 N71-24861
RC rate generator for slow speed measurement Patent
[NASA-CASE-XMF-02966] c10 N71-24863
Method and apparatus for precision sizing and joining of large diameter tubes Patent
[NASA-CASE-XMF-05114-3] c15 N71-24865
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[NASA-CASE-MFS-20395] c15 N71-24903
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[NASA-CASE-MFS-20385] c09 N71-24904
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[NASA-CASE-MFS-14971] c15 N71-24984
Pulse width inverter Patent
[NASA-CASE-MFS-10068] c10 N71-25139
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[NASA-CASE-MFS-20355] c33 N71-25353
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[NASA-CASE-MFS-20075] c09 N71-26133
Method and apparatus for precision sizing and joining of large diameter tubes Patent
[NASA-CASE-XMF-05114-2] c15 N71-26148
Filter system for control of outgas contamination in vacuum Patent
[NASA-CASE-MFS-14711] c15 N71-26185
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[NASA-CASE-XMF-03844-1] c14 N71-26474
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[NASA-CASE-MFS-20261] c14 N71-27005
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[NASA-CASE-MFS-14114] c33 N71-27862
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[NASA-CASE-MFS-13687] c09 N71-28691
A dc motor speed control system Patent
[NASA-CASE-MFS-14610] c09 N71-28886
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Method of coating through-holes Patent
[NASA-CASE-XMF-05999] c15 N71-29032
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[NASA-CASE-MFS-20935] c09 N71-34212
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[NASA-CASE-XMF-08655] c06 N71-11239
Azine polymers and process for preparing the same Patent
[NASA-CASE-XMF-08656] c06 N71-11242
Synthesis of polymeric schiff bases by reaction of acetals and amine compounds Patent
[NASA-CASE-XMF-08652] c06 N71-11243
Aromatic diamine-aromatic dialdehyde high molecular weight Schiff base polymers prepared in a monofunctional Schiff base Patent
[NASA-CASE-XMF-03074] c06 N71-24740

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OAKLAND UNIV., ROCHESTER, MICH.
Optical process for producing classification maps from multispectral data
[NASA-CASE-MSC-14472-1] c43 N77-10584
An interactive color display for multispectral imagery using correlation clustering
[NASA-CASE-MSC-16253-1] c43 N77-31583

OHIO STATE UNIV., COLUMBUS.
Horn antenna having V-shaped corrugated slots
[NASA-CASE-LAR-11112-1] c32 N76-15330
OLD DOMINION UNIV., NORFOLK, VA.
Instrumentation for measuring aircraft noise and sonic boom
[NASA-CASE-LAR-11476-1] c07 N76-27232
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[NASA-CASE-LAR-12106-1] c35 N77-23441
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[NASA-CASE-ARC-10820-1] c54 N75-32766
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[NASA-CASE-MSC-16098-1] c51 N77-24755

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PANAURA CORP., PENNSAUKEN, N. J.
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[NASA-CASE-FEC-10019] c15 N73-12487
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[NASA-CASE-NPO-10768] c06 N71-27254
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[NASA-CASE-NPO-10765] c06 N72-20121
Polyurethane resins from hydroxy terminated perfluoro ethers
[NASA-CASE-NPO-10768-2] c06 N72-27144
Highly fluorinated polyurethanes
[NASA-CASE-NPO-10767-2] c06 N72-27151
Highly fluorinated polyurethanes
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[NASA-CASE-MSC-12165-1] c07 N71-33696
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[NASA-CASE-NPO-11118] c03 N72-25021
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[NASA-CASE-GSC-11046-1] c07 N73-28013
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[NASA-CASE-GSC-11446-1] c33 N74-20860
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Device for the detection of phenol and related compounds
[NASA-CASE-LEW-12513-1] c25 N77-18238
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[NASA-CASE-XMS-01624] c15 N70-40062
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[NASA-CASE-XMS-01620] c23 N71-15673
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[NASA-CASE-XMS-01618] c14 N71-20741
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[NASA-CASE-GSC-11182-1] c15 N75-13007
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[NASA-CASE-XGS-05003] c09 N69-24318
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Radiation resistant silicon semiconductor devices Patent
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GaAs solar detector using manganese as a doping agent Patent
[NASA-CASE-XNP-01328] c26 N71-18064
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[NASA-CASE-XNP-01659] c14 N71-23039
Method of erasing target material of a vidicon tube or the like Patent
[NASA-CASE-XNP-06028] c09 N71-23189
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[NASA-CASE-XGS-01395] c03 N69-21539
Solar cell including second surface mirrors Patent
[NASA-CASE-NPO-10109] c03 N71-11049
Collapsible reflector Patent
[NASA-CASE-XMS-03454] c09 N71-20658
Simple method of making photovoltaic junctions Patent
[NASA-CASE-XNP-01960] c09 N71-23027
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[NASA-CASE-XNP-01959] c26 N71-23043
Method and apparatus for distillation of liquids Patent
[NASA-CASE-XNP-08124] c15 N71-27184
Maximum power point tracker Patent
[NASA-CASE-GSC-10376-1] c14 N71-27407
Method of changing the conductivity of vapor deposited gallium arsenide by the introduction of water into the vapor deposition atmosphere Patent
[NASA-CASE-XNP-01961] c26 N71-29156
Radial heat flux transformer
[NASA-CASE-NPO-10828] c33 N72-17948
Target acquisition antenna
[NASA-CASE-GSC-10064-1] c10 N72-22235
Method for distillation of liquids
[NASA-CASE-XNP-08124-2] c06 N73-13129
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[NASA-CASE-GSC-10791-1] c15 N73-14469
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[NASA-CASE-NPO-12070-1] c28 N73-32606
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[NASA-CASE-GSC-11560-1] c33 N74-20861
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[NASA-CASE-MSC-14649-1] c33 N76-16331
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[NASA-CASE-XNP-02389] c07 N71-28900
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[NASA-CASE-XNP-03744] c10 N71-20448
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[NASA-CASE-NFS-21244-1] c36 N75-15028
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[NASA-CASE-NFS-20240] c14 N71-26788
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Coincidence apparatus for detecting particles
[NASA-CASE-XLA-07813] c14 N72-17328
RESEARCH TRIANGLE INST., DURHAM, N. C.
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[NASA-CASE-XLA-04980] c09 N69-27422
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[NASA-CASE-XMS-06782] c32 N71-15974
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[NASA-CASE-NPO-10158] c33 N71-16356
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[NASA-CASE-NPO-10122] c12 N71-17631
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[NASA-CASE-MFS-14259] c15 N71-19213
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[NASA-CASE-MFS-11537] c14 N71-20442
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[NASA-CASE-XNP-10475] c15 N71-24679
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[NASA-CASE-NPO-10070] c15 N71-27372
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[NASA-CASE-XNP-00816] c28 N71-28928
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[NASA-CASE-NPO-10417] c16 N71-33410
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[NASA-CASE-NPO-12000] c27 N72-25699
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[NASA-CASE-NPO-12015] c27 N73-16764
Novel polymers and method of preparing same
[NASA-CASE-NPO-10998-1] c06 N73-32029
Internally supported flexible duct joint
[NASA-CASE-MFS-19193-1] c37 N75-19686
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[NASA-CASE-XNP-01311] c26 N75-29236
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[NASA-CASE-XMS-05731] c35 N75-29382
Device for installing rocket engines
[NASA-CASE-MFS-19220-1] c20 N76-22296
Laser extensometer
[NASA-CASE-MFS-19259-1] c36 N77-10516

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Brazing alloy binder
[NASA-CASE-XMF-05868] c26 N75-27125
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[NASA-CASE-XNP-03878] c26 N75-27127
Method and apparatus for vibration analysis utilizing the Mossbauer effect
[NASA-CASE-XMF-05882] c35 N75-27329
Externally supported internally stabilized flexible duct joint
[NASA-CASE-MFS-19194-1] c37 N76-14460
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[NASA-CASE-MFS-19287-1] c34 N77-30399

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[NASA-CASE-MSC-19523-1] c31 N76-16245
Apparatus for positioning modular components on a vertical or overhead surface
[NASA-CASE-LAR-11465-1] c37 N76-21554
Flexible pile thermal barrier seal
[NASA-CASE-MSC-19568-1] c37 N76-23585
Method of producing complex aluminum alloy parts of high temper, and products thereof
[NASA-CASE-MSC-19693-1] c26 N76-29401
Adjustable securing base
[NASA-CASE-MSC-19666-1] c37 N76-31529
Flanged major modular assembly jig
[NASA-CASE-MSC-19372-1] c39 N76-31562
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[NASA-CASE-MFS-16609-3] c03 N76-32140
Window defect planar mapping technique
[NASA-CASE-MSC-19442-1] c74 N77-10899
Multi-purpose wind tunnel reaction control model block
[NASA-CASE-MSC-19706-1] c09 N77-19077
Sequencing device utilizing planetary gear set
[NASA-CASE-MSC-19514-1] c37 N77-19459
Mechanical sequencer
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[NASA-CASE-ARC-10754-1] c07 N75-24736
Noise suppressor for turbo fan jet engines
[NASA-CASE-ARC-10812-1] c07 N76-18131
System for measuring Reynolds in a turbulently flowing fluid
[NASA-CASE-ARC-10755-2] c34 N76-27517
System for measuring three fluctuating velocity components in a turbulently flowing fluid
[NASA-CASE-ARC-10974-1] c34 N77-27345

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[NASA-CASE-MSC-16074-1] c27 N77-14262

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Self-contained breathing apparatus
[NASA-CASE-MSC-14733-1] c54 N76-24900

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[NASA-CASE-MSC-16000-1] c07 N77-13062

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[NASA-CASE-KSC-10647-1] c10 N72-31273

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Central spar and module joint Patent
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[NASA-CASE-NPO-10575] c03 N72-25019
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[NASA-CASE-MFS-14017] c14 N71-26627
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[NASA-CASE-MFS-20068] c07 N71-27191
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[NASA-CASE-MFS-20453] c15 N71-29133
Frequency division multiplex technique
[NASA-CASE-KSC-10521] c07 N73-20176
Device for configuring multiple leads
[NASA-CASE-MFS-22133-1] c33 N74-26977
System for enhancing tool-exchange capabilities of a portable wrench
[NASA-CASE-MFS-22283-1] c37 N75-33395
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[NASA-CASE-MFS-22707-1] c37 N76-15457
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[NASA-CASE-XGS-04047-2] c03 N72-11062
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[NASA-CASE-MSC-13407-1] c10 N72-20225
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[NASA-CASE-NPO-12127-1] c91 N74-13130
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[NASA-CASE-MSC-11847-1] c14 N72-11363
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[NASA-CASE-NPO-11018] c08 N72-21200
System for preconditioning a combustible vapor
[NASA-CASE-NPO-12072] c28 N72-22772
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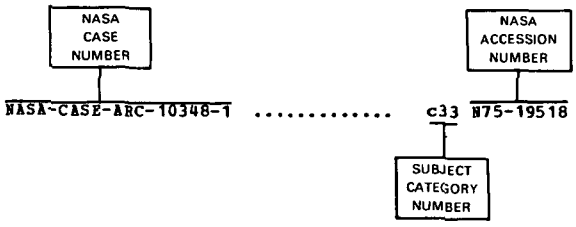

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US-PATENT-APPL-SN-115082 ..... C18 N73-13562
US-PATENT-APPL-SN-115083 ..... C07 N73-25160
US-PATENT-APPL-SN-115134 ..... C06 N73-13128
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US-PATENT-APPL-SN-116777 ..... C09 N73-19235
US-PATENT-APPL-SN-116778 ..... C09 N72-33205
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US-PATENT-APPL-SN-118203 ..... c14 N70-38602
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US-PATENT-APPL-SN-124909 ..... c14 N73-16483
US-PATENT-APPL-SN-125234 ..... c07 N73-16121
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US-PATENT-APPL-SN-125236 ..... c14 N73-26431
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US-PATENT-APPL-SN-127647 ..... c15 N73-27405
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US-PATENT-APPL-SN-127984 ..... c33 N75-27250
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US-PATENT-APPL-SN-130353 ..... c31 N73-14853
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US-PATENT-APPL-SN-138229 ..... c15 N72-32487
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US-PATENT-APPL-SN-146939 ..... c73 N75-30876
US-PATENT-APPL-SN-146940 ..... c05 N73-32014
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US-PATENT-APPL-SN-147940 ..... *c14 N72-10375*
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US-PATENT-APPL-SN-150215 ..... c33 N73-25952
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US-PATENT-APPL-SN-882122 ..... C14 N72-22438
US-PATENT-APPL-SN-882577 ..... C07 N71-27056
US-PATENT-APPL-SN-883523 ..... C09 N72-33204
US-PATENT-APPL-SN-883524 ..... C09 N72-21246
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US-PATENT-APPL-SN-885594 ..... C15 N71-29133
US-PATENT-APPL-SN-886907 ..... C37 N77-22478
US-PATENT-APPL-SN-887685 ..... C10 N72-20223
US-PATENT-APPL-SN-887698 ..... C09 N72-17153
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US-PATENT-CLASS-D12-76 ..... c05 N75-25914
US-PATENT-CLASS-D71-1 ..... c05 N74-10907

US-PATENT-CLASS-1 ..... c14 N71-27005
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US-PATENT-CLASS-2-2.1 ..... c05 N71-11195
US-PATENT-CLASS-2-2.1 ..... c05 N71-12335
US-PATENT-CLASS-2-2.1 ..... c05 N71-12344
US-PATENT-CLASS-2-2.1 ..... c05 N71-23161
US-PATENT-CLASS-2-2.1 ..... c05 N71-24623
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US-PATENT-CLASS-2-2.1A c05 N73-32012
US-PATENT-CLASS-2-2.1A c54 N74-32546
US-PATENT-CLASS-2-2.1A c54 N77-32721
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US-PATENT-CLASS-2-14 ..... c05 N71-23096
US-PATENT-CLASS-2-81 ..... c18 N71-26285
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US-PATENT-CLASS-3-1.2 ..... c52 N77-14735
US-PATENT-CLASS-3-2 ..... c05 N73-32013
US-PATENT-CLASS-3-2 ..... c54 N77-30749
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US-PATENT-CLASS-8-94.11 ..... c51 N77-27677
US-PATENT-CLASS-8-94.12 ..... c18 N71-15545
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US-PATENT-CLASS-18-26 ..... c06 N71-22975
US-PATENT-CLASS-18-39 ..... c27 N70-34783
US-PATENT-CLASS-19-205 ..... c37 N76-18456
US-PATENT-CLASS-21-207 ..... c17 N71-16393
US-PATENT-CLASS-22-200 ..... c15 N71-15966
US-PATENT-CLASS-22-203 ..... c17 N70-38198
US-PATENT-CLASS-23-55 ..... c06 N72-17093
US-PATENT-CLASS-23-88 ..... c06 N72-17093
US-PATENT-CLASS-23-97 ..... c06 N72-17093
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US-PATENT-CLASS-23-201 ..... c06 N72-17095
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US-PATENT-CLASS-23-208 ..... c26 N70-36805
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US-PATENT-CLASS-23-230B c23 N77-17161
US-PATENT-CLASS-23-230L c35 N74-32879
US-PATENT-CLASS-23-230M c25 N76-18245
US-PATENT-CLASS-23-230M c23 N77-17161
US-PATENT-CLASS-23-230R c06 N72-17094
US-PATENT-CLASS-23-230R c17 N73-12547
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US-PATENT-CLASS-23-253 ..... c06 N71-26754
US-PATENT-CLASS-23-253 ..... c06 N72-17095
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US-PATENT-CLASS-23-253PC c06 N72-17094
US-PATENT-CLASS-23-253PC c37 N74-18123
US-PATENT-CLASS-23-253R c15 N72-21465
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US-PATENT-CLASS-23-254E c33 N75-26245
US-PATENT-CLASS-23-254E c35 N75-29380
US-PATENT-CLASS-23-254E c45 N76-21742
US-PATENT-CLASS-23-254EF c35 N76-18403
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US-PATENT-CLASS-23-277R c44 N77-22607
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US-PATENT-CLASS-23-281 ..... c25 N74-12813
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US-PATENT-CLASS-24-134R c15 N73-25512
US-PATENT-CLASS-24-205.17 ..... c15 N71-25975
US-PATENT-CLASS-24-211 ..... c15 N71-17653
US-PATENT-CLASS-24-211N c15 N72-11385
US-PATENT-CLASS-24-263 ..... c15 N71-21076
US-PATENT-CLASS-24-263 ..... c15 N71-26162
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US-PATENT-CLASS-29-DIG.24 ..... c24 N75-33181
US-PATENT-CLASS-29-DIG.35 ..... c37 N77-23482
US-PATENT-CLASS-29-DIG.39 ..... c24 N75-33181
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US-PATENT-CLASS-29-630E c33 N77-26385
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US-PATENT-CLASS-74-89.18 ..... c15 N71-23809
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US-PATENT-CLASS-74-409 ..... c15 N71-21744
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US-PATENT-CLASS-74-436 ..... c37 N75-13266
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US-PATENT-CLASS-74-594.7 ..... c37 N74-18127
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US-PATENT-CLASS-74-710 ..... c37 N74-27901
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US-PATENT-CLASS-86-20.2 ..... c28 N71-26779
US-PATENT-CLASS-86-20R c20 N77-17143
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US-PATENT-CLASS-104-138R c85 N74-34672
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US-PATENT-CLASS-123-148CB c33 N77-28385
US-PATENT-CLASS-123-148E c33 N77-28385
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US-PATENT-CLASS-124-11R c75 N76-17951
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US-PATENT-CLASS-125-3 ..... c46 N74-23069
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US-PATENT-CLASS-126-270 ..... c09 N70-40234
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US-PATENT-CLASS-126-270 ..... c34 N74-23039
US-PATENT-CLASS-126-270 ..... c44 N76-14595
US-PATENT-CLASS-126-270 ..... c44 N76-23675
US-PATENT-CLASS-126-270 ..... c44 N76-24696
US-PATENT-CLASS-126-270 ..... c35 N77-20401
US-PATENT-CLASS-126-270 ..... c44 N77-32582
US-PATENT-CLASS-126-271 ..... c44 N75-32581
US-PATENT-CLASS-126-271 ..... c44 N76-14602
US-PATENT-CLASS-126-271 ..... c44 N76-22657
US-PATENT-CLASS-126-271 ..... c44 N76-24696
US-PATENT-CLASS-126-271 ..... c35 N77-20401
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US-PATENT-CLASS-128-DIG.4 ..... c05 N72-27103
US-PATENT-CLASS-128-DIG.4 ..... c05 N75-24716
US-PATENT-CLASS-128-DIG.4 ..... c35 N76-24525
US-PATENT-CLASS-128-DIG.4 ..... c52 N77-28717
US-PATENT-CLASS-128-DIG.12 ..... c37 N77-28487
US-PATENT-CLASS-128-DIG.20 ..... c52 N76-19785
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US-PATENT-CLASS-128-1A c05 N73-32012
US-PATENT-CLASS-128-1R c52 N77-25772
US-PATENT-CLASS-128-1R c52 N77-28716
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US-PATENT-CLASS-128-2.1 ..... c05 N71-11193
US-PATENT-CLASS-128-2.1 ..... c05 N71-12346
US-PATENT-CLASS-128-2.1 ..... c05 N71-24729
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US-PATENT-CLASS-128-2.1 ..... c05 N72-25120
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US-PATENT-CLASS-128-2.1A c09 N72-22202
US-PATENT-CLASS-128-2.1A c52 N74-26625
US-PATENT-CLASS-128-2.1A c52 N76-14757
US-PATENT-CLASS-128-2.1A c52 N76-29894
US-PATENT-CLASS-128-2.1E c05 N72-27103
US-PATENT-CLASS-128-2.1E c35 N76-24525
US-PATENT-CLASS-128-2.1E c52 N77-28717
US-PATENT-CLASS-128-2.1R c05 N73-26072
US-PATENT-CLASS-128-2.1Z c35 N76-24525
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US-PATENT-CLASS-128-2.05 ..... c04 N71-23185
US-PATENT-CLASS-128-2.05 ..... c05 N71-27234
US-PATENT-CLASS-128-2.05A c52 N74-26626
US-PATENT-CLASS-128-2.05A c54 N75-13531
US-PATENT-CLASS-128-2.05E c52 N74-27566
US-PATENT-CLASS-128-2.05E c52 N76-29896
US-PATENT-CLASS-128-2.05F c14 N73-32326
US-PATENT-CLASS-128-2.05P c54 N75-13531
US-PATENT-CLASS-128-2.05R c05 N73-27941
US-PATENT-CLASS-128-2.05R c52 N76-29895
US-PATENT-CLASS-128-2.05S c52 N74-26626
US-PATENT-CLASS-128-2.05T c52 N74-12778
US-PATENT-CLASS-128-2.05V c35 N76-24525
US-PATENT-CLASS-128-2.05Z c54 N75-27760
US-PATENT-CLASS-128-2.06 ..... c05 N69-21925
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US-PATENT-CLASS-128-2.06B c05 N75-24716
US-PATENT-CLASS-128-2.06E c52 N76-29896
US-PATENT-CLASS-128-2.06F c52 N74-12778
US-PATENT-CLASS-128-2.06R c05 N73-27941
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US-PATENT-CLASS-128-2H c52 N76-14757
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US-PATENT-CLASS-128-2H c52 N77-10780
US-PATENT-CLASS-128-2H c52 N77-14736

US-PATENT-CLASS-128-2N c05 N72-25122
US-PATENT-CLASS-128-2N c05 N73-13114
US-PATENT-CLASS-128-2P c52 N76-29894
US-PATENT-CLASS-128-2R c09 N72-22202
US-PATENT-CLASS-128-2S c52 N74-10975
US-PATENT-CLASS-128-2S c52 N74-27864
US-PATENT-CLASS-128-2S c33 N75-31329
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US-PATENT-CLASS-128-2S c52 N76-29895
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US-PATENT-CLASS-128-2V c52 N74-20726
US-PATENT-CLASS-128-2V c35 N75-12271
US-PATENT-CLASS-128-2V c54 N75-27760
US-PATENT-CLASS-128-24 ..... c05 N71-24738
US-PATENT-CLASS-128-24A c05 N73-27062
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US-PATENT-CLASS-128-25R c37 N74-18127
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US-PATENT-CLASS-128-29 ..... c05 N70-39922
US-PATENT-CLASS-128-142.2 ..... c54 N76-24900
US-PATENT-CLASS-128-142.5 ..... c05 N71-11190
US-PATENT-CLASS-128-142.5 ..... c05 N71-11203
US-PATENT-CLASS-128-142.5 ..... c05 N71-17599
US-PATENT-CLASS-128-142.5 ..... c05 N72-20096
US-PATENT-CLASS-128-142.5 ..... c05 N73-25125
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US-PATENT-CLASS-128-191R c25 N74-12813
US-PATENT-CLASS-128-203 ..... c54 N76-24900
US-PATENT-CLASS-128-206F c14 N73-24473
US-PATENT-CLASS-128-214E c52 N74-22771
US-PATENT-CLASS-128-214F c37 N77-28487
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US-PATENT-CLASS-128-275 ..... c15 N71-24835
US-PATENT-CLASS-128-283 ..... c05 N69-23192
US-PATENT-CLASS-128-295 ..... c05 N72-22093
US-PATENT-CLASS-128-303R c52 N77-28716
US-PATENT-CLASS-128-305 ..... c05 N73-27062
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US-PATENT-CLASS-128-379 ..... c52 N77-14736
US-PATENT-CLASS-128-400 ..... c52 N77-14736
US-PATENT-CLASS-128-402 ..... c05 N72-20096
US-PATENT-CLASS-128-402 ..... c52 N77-14736
US-PATENT-CLASS-128-410 ..... c52 N77-28717
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US-PATENT-CLASS-128-417 ..... c05 N72-27103
US-PATENT-CLASS-128-418 ..... c52 N76-29896
US-PATENT-CLASS-128-418 ..... c52 N77-14738
US-PATENT-CLASS-128-419P c52 N76-29896
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US-PATENT-CLASS-134-37 ..... c37 N76-18456
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US-PATENT-CLASS-136-6 ..... c03 N72-15986
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US-PATENT-CLASS-136-24 ..... c09 N73-32108
US-PATENT-CLASS-136-28 ..... c03 N71-10608
US-PATENT-CLASS-136-30 ..... c44 N74-19693
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US-PATENT-CLASS-136-36 ..... c44 N74-19692
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US-PATENT-CLASS-136-83R c03 N72-20034
US-PATENT-CLASS-136-83R c44 N76-18641
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US-PATENT-CLASS-136-86 ..... c03 N71-20904
US-PATENT-CLASS-136-86 ..... c15 N71-23022
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US-PATENT-CLASS-136-86S c44 N76-18641
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US-PATENT-CLASS-136-89 ..... c03 N71-18698
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US-PATENT-CLASS-136-89 ..... c44 N77-14580
US-PATENT-CLASS-136-89 ..... c44 N77-19571
US-PATENT-CLASS-136-89-AC c44 N77-31601
US-PATENT-CLASS-136-89P c44 N77-31601
US-PATENT-CLASS-136-90 ..... c44 N76-14601
US-PATENT-CLASS-136-100R c03 N72-20034
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US-PATENT-CLASS-136-132 ..... c03 N71-22974
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US-PATENT-CLASS-136-133 ..... c03 N72-15986
US-PATENT-CLASS-136-135 ..... c03 N72-15986
US-PATENT-CLASS-136-143 ..... c44 N76-29699
US-PATENT-CLASS-136-146 ..... c03 N69-21337
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US-PATENT-CLASS-136-148 ..... c24 N76-14204
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US-PATENT-CLASS-136-182 ..... c03 N71-10728
US-PATENT-CLASS-136-182 ..... c03 N71-20407
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US-PATENT-CLASS-136-182 ..... c44 N76-14601
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US-PATENT-CLASS-136-202 ..... c44 N76-16612
US-PATENT-CLASS-136-202 ..... c35 N77-32454
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US-PATENT-CLASS-136-212 ..... c35 N76-15434
US-PATENT-CLASS-136-213 ..... c14 N69-27459
US-PATENT-CLASS-136-213 ..... c34 N74-27861
US-PATENT-CLASS-136-224 ..... c14 N73-12447
US-PATENT-CLASS-136-225 ..... c14 N73-24472
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US-PATENT-CLASS-136-228 ..... c33 N71-15568
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US-PATENT-CLASS-136-233 ..... c14 N72-27410
US-PATENT-CLASS-136-233 ..... c14 N73-13417
US-PATENT-CLASS-136-233 ..... c34 N74-27861
US-PATENT-CLASS-136-233 ..... c35 N77-14409
US-PATENT-CLASS-136-236R c35 N77-32454
US-PATENT-CLASS-136-240 ..... c35 N77-32454
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US-PATENT-CLASS-137-1 ..... c15 N73-27406
US-PATENT-CLASS-137-13 ..... c15 N71-15967
US-PATENT-CLASS-137-13 ..... c15 N72-33477
US-PATENT-CLASS-137-15.1 ..... c02 N74-20646
US-PATENT-CLASS-137-15.1 ..... c07 N74-31270
US-PATENT-CLASS-137-15.1 ..... c07 N75-24736
US-PATENT-CLASS-137-15.1 ..... c07 N77-18154
US-PATENT-CLASS-137-15.2 ..... c02 N74-20646
US-PATENT-CLASS-137-15.2 ..... c35 N76-14431
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US-PATENT-CLASS-137-81.5 ..... c12 N71-28741
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US-PATENT-CLASS-137-81.5 ..... c15 N73-13462
US-PATENT-CLASS-137-81.5 ..... c28 N73-13773

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US-PATENT-CLASS-137-110 ..... c54 N76-24900
US-PATENT-CLASS-137-154 ..... c15 N73-27406
US-PATENT-CLASS-137-197 ..... c15 N70-41646
US-PATENT-CLASS-137-207 ..... c34 N77-30399
US-PATENT-CLASS-137-209 ..... c34 N77-30399
US-PATENT-CLASS-137-340 ..... c15 N70-34817
US-PATENT-CLASS-137-340 ..... c15 N70-35087
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US-PATENT-CLASS-137-496 ..... c15 N71-22706
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US-PATENT-CLASS-137-505.42 ..... c37 N75-15050
US-PATENT-CLASS-137-515.3 ..... c37 N76-14463
US-PATENT-CLASS-137-516.27 ..... c15 N73-30459
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US-PATENT-CLASS-137-538 ..... c05 N73-25125
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US-PATENT-CLASS-137-608 ..... c15 N73-13462
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US-PATENT-CLASS-137-615 ..... c12 N71-16031
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US-PATENT-CLASS-137-625.69 ..... c15 N70-36908
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US-PATENT-CLASS-137-833 ..... c33 N74-11050
US-PATENT-CLASS-137-840 ..... c33 N74-11050
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US-PATENT-CLASS-138-42 ..... c15 N71-15608
US-PATENT-CLASS-138-43 ..... c15 N71-19213
US-PATENT-CLASS-138-45 ..... c15 N71-18580
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US-PATENT-CLASS-138-46 ..... c12 N71-18615
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US-PATENT-CLASS-140-105 ..... c15 N72-12408
US-PATENT-CLASS-140-123 ..... c15 N71-15918
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US-PATENT-CLASS-148-6.16 ..... c18 N71-23047
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US-PATENT-CLASS-148-32 ..... c26 N77-32279
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US-PATENT-CLASS-149-36 ..... c27 N73-16764
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US-PATENT-CLASS-149-36 ..... c24 N76-14203
US-PATENT-CLASS-149-60 ..... c28 N74-33209
US-PATENT-CLASS-149-76 ..... c28 N74-33209
US-PATENT-CLASS-149-92 ..... c27 N72-25699
US-PATENT-CLASS-149-109 ..... c27 N70-41897
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US-PATENT-CLASS-152-250 ..... c15 N71-27091
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US-PATENT-CLASS-156-16 ..... c74 N75-12732
US-PATENT-CLASS-156-18 ..... c26 N73-26752
US-PATENT-CLASS-156-18 ..... c74 N75-12732
US-PATENT-CLASS-156-60 ..... c15 N71-22713
US-PATENT-CLASS-156-66 ..... c15 N72-11392
US-PATENT-CLASS-156-84 ..... c15 N72-16330
US-PATENT-CLASS-156-86 ..... c15 N72-16330
US-PATENT-CLASS-156-89 ..... c37 N75-15992
US-PATENT-CLASS-156-94 ..... c32 N74-27612
US-PATENT-CLASS-156-94 ..... c24 N74-30001
US-PATENT-CLASS-156-99 ..... c37 N75-15992
US-PATENT-CLASS-156-172 ..... c15 N71-17651
US-PATENT-CLASS-156-212 ..... c03 N71-26726
US-PATENT-CLASS-156-218 ..... c54 N74-32546
US-PATENT-CLASS-156-229 ..... c24 N77-28225
US-PATENT-CLASS-156-242 ..... c15 N69-24322
US-PATENT-CLASS-156-242 ..... c37 N76-24575
US-PATENT-CLASS-156-245 ..... c31 N74-18089
US-PATENT-CLASS-156-247 ..... c31 N74-18089
US-PATENT-CLASS-156-250 ..... c03 N72-25019
US-PATENT-CLASS-156-264 ..... c05 N72-25121
US-PATENT-CLASS-156-285 ..... c15 N71-23052
US-PATENT-CLASS-156-285 ..... c18 N73-30532
US-PATENT-CLASS-156-285 ..... c31 N74-18089
US-PATENT-CLASS-156-285 ..... c24 N74-27035
US-PATENT-CLASS-156-286 ..... c37 N76-21554
US-PATENT-CLASS-156-286 ..... c37 N76-24575
US-PATENT-CLASS-156-308 ..... c05 N72-25121
US-PATENT-CLASS-156-309 ..... c31 N74-18089
US-PATENT-CLASS-156-320 ..... c15 N72-11392
US-PATENT-CLASS-156-331 ..... c37 N74-18126
US-PATENT-CLASS-156-345 ..... c15 N70-42033
US-PATENT-CLASS-156-382 ..... c37 N76-21554
US-PATENT-CLASS-156-510 ..... c15 N71-17687
US-PATENT-CLASS-156-510 ..... c03 N72-25019
US-PATENT-CLASS-156-545 ..... c15 N71-24164
US-PATENT-CLASS-156-556 ..... c37 N76-21554
US-PATENT-CLASS-156-601 ..... c76 N77-32919
US-PATENT-CLASS-156-610 ..... c76 N76-25049
US-PATENT-CLASS-156-612 ..... c76 N76-25049
US-PATENT-CLASS-156-612 ..... c44 N76-28635
US-PATENT-CLASS-156-613 ..... c76 N76-25049
US-PATENT-CLASS-156-613 ..... c44 N76-28635
US-PATENT-CLASS-156-614 ..... c44 N76-28635
US-PATENT-CLASS-156-619 ..... c76 N77-32919
US-PATENT-CLASS-156-620 ..... c76 N77-32919
US-PATENT-CLASS-156-645 ..... c27 N77-32308
US-PATENT-CLASS-156-663 ..... c27 N77-32308
US-PATENT-CLASS-161-7 ..... c18 N72-25540
US-PATENT-CLASS-161-7 ..... c18 N72-25541
US-PATENT-CLASS-161-42 ..... c37 N74-18126
US-PATENT-CLASS-161-43 ..... c37 N74-18126
US-PATENT-CLASS-161-67 ..... c33 N72-17947
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US-PATENT-CLASS-161-69 ..... c33 N71-24858
US-PATENT-CLASS-161-89 ..... c17 N71-28747
US-PATENT-CLASS-161-92 ..... c37 N75-26371

US-PATENT-CLASS-161-93 ..... c18 N73-12604
US-PATENT-CLASS-161-93 ..... c37 N74-18126
US-PATENT-CLASS-161-93 ..... c37 N75-26371
US-PATENT-CLASS-161-115 ..... c18 N70-41583
US-PATENT-CLASS-161-116 ..... c37 N74-23064
US-PATENT-CLASS-161-127 ..... c18 N72-25540
US-PATENT-CLASS-161-127 ..... c18 N72-25541
US-PATENT-CLASS-161-161 ..... c33 N71-25351
US-PATENT-CLASS-161-182 ..... c15 N69-39735
US-PATENT-CLASS-161-182 ..... c37 N74-18126
US-PATENT-CLASS-161-189 ..... c23 N71-15978
US-PATENT-CLASS-161-192 ..... c37 N74-18126
US-PATENT-CLASS-161-196 ..... c37 N74-21063
US-PATENT-CLASS-161-214 ..... c06 N73-27980
US-PATENT-CLASS-161-227 ..... c06 N73-27980
US-PATENT-CLASS-162-102 ..... c24 N76-14204
US-PATENT-CLASS-162-153 ..... c24 N76-14204
US-PATENT-CLASS-162-222 ..... c24 N76-14204
US-PATENT-CLASS-162-228 ..... c24 N76-14204
US-PATENT-CLASS-164-60 ..... c24 N77-27187
US-PATENT-CLASS-164-132 ..... c37 N76-23570
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US-PATENT-CLASS-165-1 ..... c34 N75-12222
US-PATENT-CLASS-165-2 ..... c33 N71-24876
US-PATENT-CLASS-165-2 ..... c35 N74-15093
US-PATENT-CLASS-165-2 ..... c44 N77-32581
US-PATENT-CLASS-165-3 ..... c03 N72-28025
US-PATENT-CLASS-165-10 ..... c44 N76-31667
US-PATENT-CLASS-165-12 ..... c33 N71-24276
US-PATENT-CLASS-165-20 ..... c03 N72-28025
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US-PATENT-CLASS-165-32 ..... c33 N73-32818
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US-PATENT-CLASS-165-46 ..... c05 N71-19439
US-PATENT-CLASS-165-46 ..... c05 N71-24147
US-PATENT-CLASS-165-46 ..... c05 N73-20137
US-PATENT-CLASS-165-46 ..... c05 N73-26071
US-PATENT-CLASS-165-47 ..... c33 N71-29052
US-PATENT-CLASS-165-47 ..... c31 N73-30829
US-PATENT-CLASS-165-47 ..... c34 N75-12222
US-PATENT-CLASS-165-86 ..... c15 N71-26611
US-PATENT-CLASS-165-86 ..... c33 N71-29046
US-PATENT-CLASS-165-96 ..... c33 N70-36847
US-PATENT-CLASS-165-96 ..... c33 N71-22890
US-PATENT-CLASS-165-96 ..... c31 N73-30829
US-PATENT-CLASS-165-96 ..... c33 N73-32818
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US-PATENT-CLASS-165-105 ..... c09 N71-24807
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US-PATENT-CLASS-165-105 ..... c34 N74-18552
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US-PATENT-CLASS-165-105 ..... c34 N76-27515
US-PATENT-CLASS-165-105 ..... c34 N77-32413
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US-PATENT-CLASS-165-111 ..... c77 N75-20139
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US-PATENT-CLASS-165-133 ..... c33 N71-25353
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US-PATENT-CLASS-165-158 ..... c33 N72-20915
US-PATENT-CLASS-165-161 ..... c33 N72-20915
US-PATENT-CLASS-165-164 ..... c34 N77-10463
US-PATENT-CLASS-165-166 ..... c54 N77-32722
US-PATENT-CLASS-165-170 ..... c34 N77-10463
US-PATENT-CLASS-165-174 ..... c33 N72-20915
US-PATENT-CLASS-165-185 ..... c28 N73-32606
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US-PATENT-CLASS-169-36 ..... c12 N72-21310
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US-PATENT-CLASS-173-132 ..... c37 N76-18454
US-PATENT-CLASS-174-DIG.6 ..... c26 N73-26752
US-PATENT-CLASS-174-DIG.6 ..... c26 N73-32571
US-PATENT-CLASS-174-DIG.8 ..... c33 N74-22865
US-PATENT-CLASS-174-15C c33 N74-27683
US-PATENT-CLASS-174-18 ..... c09 N69-21542
US-PATENT-CLASS-174-28 ..... c07 N71-27191
US-PATENT-CLASS-174-28 ..... c33 N74-27683
US-PATENT-CLASS-174-35 ..... c07 N71-19436
US-PATENT-CLASS-174-36 ..... c09 N72-22198
US-PATENT-CLASS-174-52S c15 N73-14469
US-PATENT-CLASS-174-68.5 ..... c15 N70-41960
US-PATENT-CLASS-174-69 ..... c33 N74-22865
US-PATENT-CLASS-174-70R c33 N74-22865
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US-PATENT-CLASS-174-84 ..... c15 N72-17455
US-PATENT-CLASS-174-106R c09 N72-22198
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US-PATENT-CLASS-174-126CP c26 N73-32571
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US-PATENT-CLASS-174-148 ..... c33 N76-16332
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US-PATENT-CLASS-176-11 ..... c25 N76-27383
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US-PATENT-CLASS-176-14 ..... c25 N76-29379
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US-PATENT-CLASS-176-35 ..... c22 N70-34501
US-PATENT-CLASS-176-45 ..... c22 N71-28759
US-PATENT-CLASS-176-52 ..... c22 N70-34572
US-PATENT-CLASS-176-86G c22 N72-20597
US-PATENT-CLASS-176-169 ..... c22 N73-32528
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US-PATENT-CLASS-177-200 ..... c35 N74-26945
US-PATENT-CLASS-177-208 ..... c35 N77-19385
US-PATENT-CLASS-177-210 ..... c14 N71-10773
US-PATENT-CLASS-177-211 ..... c35 N74-26945
US-PATENT-CLASS-177-246 ..... c35 N74-26945
US-PATENT-CLASS-178-DIG.1 ..... c36 N74-20009
US-PATENT-CLASS-178-DIG.1 ..... c33 N75-30431
US-PATENT-CLASS-178-DIG.1 ..... c45 N76-17656
US-PATENT-CLASS-178-DIG.6 ..... c10 N73-13235
US-PATENT-CLASS-178-DIG.8 ..... c14 N72-25412
US-PATENT-CLASS-178-DIG.8 ..... c45 N76-17656
US-PATENT-CLASS-178-DIG.12 ..... c07 N72-12081
US-PATENT-CLASS-178-DIG.12 ..... c32 N75-21485
US-PATENT-CLASS-178-DIG.20 ..... c23 N72-27728
US-PATENT-CLASS-178-DIG.20 ..... c35 N75-19613
US-PATENT-CLASS-178-DIG.20 ..... c18 N76-14186
US-PATENT-CLASS-178-DIG.21 ..... c16 N72-13437
US-PATENT-CLASS-178-DIG.23 ..... c07 N73-30115
US-PATENT-CLASS-178-DIG.25 ..... c74 N75-25706
US-PATENT-CLASS-178-DIG.28 ..... c08 N72-22164
US-PATENT-CLASS-178-DIG.29 ..... c35 N75-25123
US-PATENT-CLASS-178-DIG.32 ..... c71 N74-21014
US-PATENT-CLASS-178-DIG.35 ..... c09 N76-24280
US-PATENT-CLASS-178-DIG.36 ..... c08 N72-22164
US-PATENT-CLASS-178-5.2R c09 N71-28618
US-PATENT-CLASS-178-5.2R c07 N72-17109
US-PATENT-CLASS-178-5.4 ..... c07 N72-17109
US-PATENT-CLASS-178-5.8R c71 N74-21014
US-PATENT-CLASS-178-6 ..... c07 N71-19433
US-PATENT-CLASS-178-6 ..... c09 N71-19449
US-PATENT-CLASS-178-6 ..... c07 N71-23026
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US-PATENT-CLASS-178-6.6 ..... c07 N71-26102
US-PATENT-CLASS-178-6.6DD c07 N73-30115
US-PATENT-CLASS-178-6.6DD c35 N74-11283
US-PATENT-CLASS-178-6.7 ..... c07 N72-17109
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US-PATENT-CLASS-178-7.5E c10 N72-31273
US-PATENT-CLASS-178-7.6 ..... c36 N74-20009
US-PATENT-CLASS-178-7.7 ..... c09 N71-12539
US-PATENT-CLASS-178-7.7 ..... c32 N74-20813
US-PATENT-CLASS-178-7.89 ..... c09 N76-24280
US-PATENT-CLASS-178-7.92 ..... c14 N72-25414
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US-PATENT-CLASS-178-18 ..... c10 N73-32143
US-PATENT-CLASS-178-50 ..... c08 N72-18184
US-PATENT-CLASS-178-50 ..... c08 N72-25208
US-PATENT-CLASS-178-52 ..... c08 N72-22162
US-PATENT-CLASS-178-54CF c09 N71-28618
US-PATENT-CLASS-178-54PE c09 N71-28618
US-PATENT-CLASS-178-58A c32 N75-21486
US-PATENT-CLASS-178-66 ..... c09 N71-25866
US-PATENT-CLASS-178-66 ..... c08 N72-18184
US-PATENT-CLASS-178-66R c32 N75-24981
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US-PATENT-CLASS-178-67 ..... c32 N74-26654
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US-PATENT-CLASS-178-69.5 ..... c07 N71-11281
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US-PATENT-CLASS-178-69.5R c32 N75-26195
US-PATENT-CLASS-178-69.5R c33 N76-14371
US-PATENT-CLASS-178-69.5R c60 N77-19760
US-PATENT-CLASS-178-69A c35 N75-21582
US-PATENT-CLASS-178-69C c32 N76-16249
US-PATENT-CLASS-178-79 ..... c32 N75-21486
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US-PATENT-CLASS-179-1 ..... c31 N71-33160
US-PATENT-CLASS-179-1P c10 N73-12244
US-PATENT-CLASS-179-1R c07 N71-33108
US-PATENT-CLASS-179-1SA c10 N73-25240
US-PATENT-CLASS-179-1SA c32 N76-31372
US-PATENT-CLASS-179-1SA c32 N77-30309
US-PATENT-CLASS-179-1SP c32 N77-30309
US-PATENT-CLASS-179-1VC c07 N71-33108
US-PATENT-CLASS-179-15 ..... c07 N69-39978
US-PATENT-CLASS-179-15 ..... c07 N71-20814
US-PATENT-CLASS-179-15 ..... c07 N71-24621
US-PATENT-CLASS-179-15 ..... c07 N71-24622
US-PATENT-CLASS-179-15 ..... c08 N72-18184
US-PATENT-CLASS-179-15.55E c08 N72-11171
US-PATENT-CLASS-179-15.55E c08 N72-33172
US-PATENT-CLASS-179-15A c08 N72-22162
US-PATENT-CLASS-179-15A c07 N73-26118
US-PATENT-CLASS-179-15AN c07 N73-16121
US-PATENT-CLASS-179-15AT c32 N74-30524
US-PATENT-CLASS-179-15BA c60 N77-12721
US-PATENT-CLASS-179-15BC c08 N72-25208
US-PATENT-CLASS-179-15BC c07 N73-16121
US-PATENT-CLASS-179-15BC c32 N74-30523
US-PATENT-CLASS-179-15BC c33 N75-26243
US-PATENT-CLASS-179-15BL c08 N72-22162
US-PATENT-CLASS-179-15BM c07 N73-26118
US-PATENT-CLASS-179-15BS c10 N71-33407
US-PATENT-CLASS-179-15BS c07 N72-20140
US-PATENT-CLASS-179-15BS c07 N73-30115
US-PATENT-CLASS-179-15BS c32 N75-26195
US-PATENT-CLASS-179-15BS c60 N77-19760
US-PATENT-CLASS-179-15BV c07 N72-25172
US-PATENT-CLASS-179-15BY c32 N74-30524
US-PATENT-CLASS-179-15FD c08 N72-25208
US-PATENT-CLASS-179-15FS c07 N73-28012
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US-PATENT-CLASS-179-100.2 ..... c09 N71-25866
US-PATENT-CLASS-179-100.2 ..... c08 N71-27210
US-PATENT-CLASS-179-100.2 ..... c08 N71-27255

US-PATENT-CLASS-179-100.2A c21 N73-13644
US-PATENT-CLASS-179-100.2A c32 N74-27612
US-PATENT-CLASS-179-100.2B c32 N74-27612
US-PATENT-CLASS-179-100.2C c35 N77-21392
US-PATENT-CLASS-179-100.2CH c36 N74-13205
US-PATENT-CLASS-179-100.2K c07 N72-21119
US-PATENT-CLASS-179-100.2MD c35 N74-11283
US-PATENT-CLASS-179-100.2T c35 N74-11283
US-PATENT-CLASS-179-100-2CA c09 N72-11224
US-PATENT-CLASS-179-100-2MD c09 N72-11224
US-PATENT-CLASS-179-175.1A c14 N73-27379
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US-PATENT-CLASS-180-7B c11 N73-26238
US-PATENT-CLASS-180-8A c11 N73-26238
US-PATENT-CLASS-180-9.2R c11 N73-26238
US-PATENT-CLASS-180-9.5 ..... c11 N73-26238
US-PATENT-CLASS-180-41 ..... c11 N73-26238
US-PATENT-CLASS-180-79.3 ..... c37 N74-18125
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US-PATENT-CLASS-180-121 ..... c31 N71-15689
US-PATENT-CLASS-180-125 ..... c15 N72-17451
US-PATENT-CLASS-180-127 ..... c15 N72-17451
US-PATENT-CLASS-181.5R c71 N74-31148
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US-PATENT-CLASS-181-33C c07 N74-32418
US-PATENT-CLASS-181-33F c07 N74-32418
US-PATENT-CLASS-181-33H c07 N74-32418
US-PATENT-CLASS-181-33HB c07 N74-27490
US-PATENT-CLASS-181-33HC c07 N74-33218
US-PATENT-CLASS-181-33HC c07 N76-18117
US-PATENT-CLASS-181-33L c07 N74-32418
US-PATENT-CLASS-181-42 ..... c07 N74-32418
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US-PATENT-CLASS-182-191 ..... c05 N71-11199
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US-PATENT-CLASS-187-20 ..... c15 N72-25453
US-PATENT-CLASS-187-95 ..... c15 N72-25453
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US-PATENT-CLASS-188-1B c15 N72-20443
US-PATENT-CLASS-188-1E c19 N76-22284
US-PATENT-CLASS-188-1C c15 N72-17450
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US-PATENT-CLASS-188-1C c15 N73-30460
US-PATENT-CLASS-188-1C c11 N73-32152
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US-PATENT-CLASS-188-65.5 ..... c15 N71-27067
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US-PATENT-CLASS-188-88 ..... c15 N71-26611
US-PATENT-CLASS-188-103 ..... c15 N71-27146
US-PATENT-CLASS-188-129 ..... c15 N72-17450
US-PATENT-CLASS-188-163 ..... c37 N74-26976
US-PATENT-CLASS-188-171 ..... c37 N74-26976
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US-PATENT-CLASS-195-66R c06 N73-27086
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US-PATENT-CLASS-195-99 ..... c06 N71-17705
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US-PATENT-CLASS-195-103.5R c06 N72-25149
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US-PATENT-CLASS-195-103.5R c35 N75-27330
US-PATENT-CLASS-195-103.5R c35 N75-33368
US-PATENT-CLASS-195-103.5R c51 N76-29891
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US-PATENT-CLASS-200-81R c09 N72-22204
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US-PATENT-CLASS-200-152 ..... c09 N71-19610
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US-PATENT-CLASS-202-234 ..... c15 N71-23086
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US-PATENT-CLASS-204-9 ..... c20 N74-32919
US-PATENT-CLASS-204-9 ..... c24 N77-19171
US-PATENT-CLASS-204-16 ..... c24 N77-19171
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US-PATENT-CLASS-204-32R c44 N76-14595
US-PATENT-CLASS-204-33 ..... c17 N71-25903
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US-PATENT-CLASS-204-157.1R c37 N76-18458
US-PATENT-CLASS-204-157.1R c25 N77-32255
US-PATENT-CLASS-204-157.1R c44 N77-32580
US-PATENT-CLASS-204-157.18AG c15 N72-25452
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US-PATENT-CLASS-204-162R c25 N77-32255
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US-PATENT-CLASS-204-180R c34 N74-27744
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US-PATENT-CLASS-209-300 ..... c37 N76-18456
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US-PATENT-CLASS-210-40 ..... c27 N77-31308

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US-PATENT-CLASS-210-104 ..... c05 N72-27102
US-PATENT-CLASS-210-110 ..... c05 N72-27102
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US-PATENT-CLASS-214-1B c54 N75-27758
US-PATENT-CLASS-214-1BC c54 N77-32721
US-PATENT-CLASS-214-1CM c15 N72-28495
US-PATENT-CLASS-214-1CM c54 N75-12616
US-PATENT-CLASS-214-1CM c18 N75-27041
US-PATENT-CLASS-214-1CM c54 N75-27758
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US-PATENT-CLASS-214-1R c37 N76-15457
US-PATENT-CLASS-214-16.1CB c37 N77-22480
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US-PATENT-CLASS-219-125 ..... c37 N75-27376
US-PATENT-CLASS-219-130 ..... c15 N71-23798
US-PATENT-CLASS-219-131 ..... c15 N71-15871
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US-PATENT-CLASS-219-158 ..... c15 N72-22491
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US-PATENT-CLASS-219-216 ..... c35 N74-15831
US-PATENT-CLASS-219-221 ..... c15 N72-11392
US-PATENT-CLASS-219-229 ..... c15 N71-27214
US-PATENT-CLASS-219-234 ..... c15 N72-22491
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US-PATENT-CLASS-222-193 ..... c37 N74-13178
US-PATENT-CLASS-222-309 ..... c15 N72-21465
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US-PATENT-CLASS-222-324 ..... c54 N74-17853
US-PATENT-CLASS-222-340 ..... c54 N74-12779
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US-PATENT-CLASS-226-190 ..... c08 N71-19420
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US-PATENT-CLASS-228-53 ..... c15 N71-27214
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US-PATENT-CLASS-228-232 ..... c26 N77-28265
US-PATENT-CLASS-228-238 ..... c37 N76-18455
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US-PATENT-CLASS-230-162 ..... c33 N71-17610
US-PATENT-CLASS-230-221 ..... c11 N72-22245
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US-PATENT-CLASS-233-6 ..... c34 N75-26282
US-PATENT-CLASS-233-11 ..... c15 N71-16079
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US-PATENT-CLASS-233-25 ..... c34 N75-26282
US-PATENT-CLASS-233-46 ..... c34 N75-26282
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US-PATENT-CLASS-235-61.6 ..... c15 N71-21179
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US-PATENT-CLASS-235-88M c35 N76-29552
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US-PATENT-CLASS-235-92 ..... c10 N71-27137

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US-PATENT-CLASS-235-92CC c08 N72-20176
US-PATENT-CLASS-235-92CT c38 N77-17495
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US-PATENT-CLASS-235-92FQ c08 N73-20217
US-PATENT-CLASS-235-92LG c08 N72-20176
US-PATENT-CLASS-235-92LG c33 N75-19519
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US-PATENT-CLASS-235-92MT c32 N73-26910
US-PATENT-CLASS-235-92PE c37 N74-21056
US-PATENT-CLASS-235-92R c08 N72-20176
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US-PATENT-CLASS-235-92VA c33 N75-19519
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US-PATENT-CLASS-250-41.9S c14 N73-12444
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US-PATENT-CLASS-252-305 ..... c06 N73-30097
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US-PATENT-CLASS-252-431R c06 N73-32029
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US-PATENT-CLASS-253-39.15 ..... c15 N70-33264
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US-PATENT-CLASS-253-77 ..... c28 N71-29154
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US-PATENT-CLASS-254-93R c20 N76-22296
US-PATENT-CLASS-254-124 ..... c20 N76-22296
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US-PATENT-CLASS-254-173 ..... c15 N71-24599
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US-PATENT-CLASS-254-190 ..... c15 N72-25453
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US-PATENT-CLASS-259-4 ..... c15 N73-19458
US-PATENT-CLASS-259-4AC c37 N76-19436
US-PATENT-CLASS-259-60 ..... c35 N74-15093
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US-PATENT-CLASS-259-72 ..... c37 N74-18123
US-PATENT-CLASS-259-98 ..... c35 N74-15126
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US-PATENT-CLASS-260.46.5E c27 N74-21156
US-PATENT-CLASS-260-DIG.24 ..... c27 N74-27037
US-PATENT-CLASS-260-DIG.24 ..... c27 N76-24405
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US-PATENT-CLASS-260-2.5 ..... c06 N71-11242
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US-PATENT-CLASS-260-2.5 ..... c06 N71-25929
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US-PATENT-CLASS-260-2.5AK c27 N76-15310
US-PATENT-CLASS-260-2.5AM c27 N74-12812
US-PATENT-CLASS-260-2.5AM c27 N77-31308
US-PATENT-CLASS-260-2.5AY c27 N77-31308
US-PATENT-CLASS-260-2.5F c18 N73-13562
US-PATENT-CLASS-260-2.5FP c06 N72-25147
US-PATENT-CLASS-260-2.5FP c27 N74-27037
US-PATENT-CLASS-260-2.5L c27 N74-12814
US-PATENT-CLASS-260-2.5R c27 N74-27037
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US-PATENT-CLASS-260-32.6N c06 N73-27980
US-PATENT-CLASS-260-32.6N c23 N76-15268
US-PATENT-CLASS-260-32.8N c23 N76-15268
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US-PATENT-CLASS-260-33.6R c06 N73-27980
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US-PATENT-CLASS-260-47 ..... c06 N71-28807

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US-PATENT-CLASS-260-47UP c06 N73-32029
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US-PATENT-CLASS-260-93.5S c06 N73-32029
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US-PATENT-CLASS-260-94.2R c06 N73-32029
US-PATENT-CLASS-260-94.7R c06 N73-32029
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US-PATENT-CLASS-260-615 ..... c06 N73-30101
US-PATENT-CLASS-260-877 ..... c06 N72-22107
US-PATENT-CLASS-260-879 ..... c27 N76-16228
US-PATENT-CLASS-260-900 ..... c27 N76-16228
US-PATENT-CLASS-261-145 ..... c28 N72-22772
US-PATENT-CLASS-261/DIG.75 ..... c34 N77-24423
US-PATENT-CLASS-261/123 ..... c34 N77-24423
US-PATENT-CLASS-263-48 ..... c15 N69-27483
US-PATENT-CLASS-264-DIG.36 ..... c18 N73-14584
US-PATENT-CLASS-264-DIG.44 ..... c15 N72-16329
US-PATENT-CLASS-264-3 ..... c28 N71-26779
US-PATENT-CLASS-264-3R c28 N77-10213
US-PATENT-CLASS-264-3R c20 N77-17143
US-PATENT-CLASS-264-22 ..... c15 N72-20446
US-PATENT-CLASS-264-22 ..... c14 N72-22439
US-PATENT-CLASS-264-22 ..... c25 N75-12087
US-PATENT-CLASS-264-27 ..... c26 N71-17818
US-PATENT-CLASS-264-28 ..... c15 N73-12489
US-PATENT-CLASS-264-36 ..... c15 N73-12489
US-PATENT-CLASS-264-36 ..... c32 N74-27612
US-PATENT-CLASS-264-40 ..... c15 N73-12489
US-PATENT-CLASS-264-60 ..... c27 N76-22376
US-PATENT-CLASS-264-63 ..... c27 N76-22376
US-PATENT-CLASS-264-65 ..... c18 N73-14584
US-PATENT-CLASS-264-66 ..... c27 N76-22376
US-PATENT-CLASS-264-92 ..... c15 N71-17803
US-PATENT-CLASS-264-92 ..... c15 N72-24522
US-PATENT-CLASS-264-102 ..... c15 N71-10672
US-PATENT-CLASS-264-102 ..... c15 N73-12489
US-PATENT-CLASS-264-102 ..... c31 N74-14133
US-PATENT-CLASS-264-102 ..... c31 N74-18124
US-PATENT-CLASS-264-102 ..... c37 N76-24575
US-PATENT-CLASS-264-104 ..... c05 N72-25120
US-PATENT-CLASS-264-111 ..... c17 N71-29137
US-PATENT-CLASS-264-129 ..... c37 N76-31524
US-PATENT-CLASS-264-135 ..... c37 N74-18126
US-PATENT-CLASS-264-136 ..... c37 N74-18126
US-PATENT-CLASS-264-161 ..... c37 N76-31524
US-PATENT-CLASS-264-217 ..... c25 N75-12087
US-PATENT-CLASS-264-219 ..... c37 N76-31524
US-PATENT-CLASS-264-221 ..... c15 N72-16329
US-PATENT-CLASS-264-225 ..... c15 N72-16329
US-PATENT-CLASS-264-227 ..... c15 N72-16329
US-PATENT-CLASS-264-257 ..... c37 N74-18126
US-PATENT-CLASS-264-267 ..... c37 N76-24575
US-PATENT-CLASS-264-294 ..... c31 N74-13177
US-PATENT-CLASS-264-304 ..... c37 N76-31524
US-PATENT-CLASS-264-305 ..... c37 N76-31524
US-PATENT-CLASS-264-308 ..... c37 N76-31524
US-PATENT-CLASS-264-310 ..... c37 N76-31524
US-PATENT-CLASS-264-318 ..... c37 N76-31524
US-PATENT-CLASS-264-331 ..... c27 N76-16230
US-PATENT-CLASS-264-334 ..... c37 N76-31524
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US-PATENT-CLASS-266-24 ..... c17 N72-28535
US-PATENT-CLASS-267-1 ..... c15 N69-27504
US-PATENT-CLASS-267-1 ..... c15 N70-38225
US-PATENT-CLASS-267-64 ..... c15 N71-21530
US-PATENT-CLASS-267-166 ..... c34 N74-18552
US-PATENT-CLASS-269-21 ..... c37 N76-21554
US-PATENT-CLASS-269-48.1 ..... c39 N74-13131
US-PATENT-CLASS-272-DIG.1 ..... c05 N73-32014
US-PATENT-CLASS-272-DIG.4 ..... c05 N73-32014
US-PATENT-CLASS-272-DIG.5 ..... c05 N73-32014
US-PATENT-CLASS-272-1R c09 N75-15662
US-PATENT-CLASS-272-57A c09 N75-15662
US-PATENT-CLASS-272-70 ..... c05 N71-28619
US-PATENT-CLASS-272-73 ..... c14 N73-27377
US-PATENT-CLASS-272-73 ..... c05 N73-27941
US-PATENT-CLASS-272-73 ..... c37 N74-18127
US-PATENT-CLASS-272-79C c05 N73-32014
US-PATENT-CLASS-272-80 ..... c37 N74-18127
US-PATENT-CLASS-273-1E c05 N73-13114
US-PATENT-CLASS-274-4R c09 N72-11224
US-PATENT-CLASS-277-4 ..... c37 N76-22541
US-PATENT-CLASS-277-13 ..... c15 N71-26294
US-PATENT-CLASS-277-25 ..... c15 N69-21362
US-PATENT-CLASS-277-25 ..... c15 N71-19570
US-PATENT-CLASS-277-25 ..... c15 N72-29488
US-PATENT-CLASS-277-25 ..... c37 N74-10474
US-PATENT-CLASS-277-27 ..... c15 N72-29488
US-PATENT-CLASS-277-27 ..... c37 N74-10474
US-PATENT-CLASS-277-27 ..... c37 N74-15125
US-PATENT-CLASS-277-27 ..... c37 N75-21631
US-PATENT-CLASS-277-40 ..... c37 N75-21631
US-PATENT-CLASS-277-41 ..... c37 N76-22541
US-PATENT-CLASS-277-74 ..... c15 N72-29488
US-PATENT-CLASS-277-74 ..... c37 N76-22541
US-PATENT-CLASS-277-91 ..... c37 N74-15125
US-PATENT-CLASS-277-93R c37 N76-22541
US-PATENT-CLASS-277-96 ..... c37 N74-10474
US-PATENT-CLASS-277-134 ..... c37 N75-21631
US-PATENT-CLASS-279-1B c37 N75-33395
US-PATENT-CLASS-279-89 ..... c37 N75-33395
US-PATENT-CLASS-279-107 ..... c37 N75-33395
US-PATENT-CLASS-280-150SB c05 N75-25915
US-PATENT-CLASS-280-432 ..... c37 N77-14477
US-PATENT-CLASS-285-DIG.21 ..... c15 N72-25450
US-PATENT-CLASS-285-DIG.21 ..... c33 N73-26958
US-PATENT-CLASS-285-3 ..... c15 N69-27490
US-PATENT-CLASS-285-3 ..... c15 N72-25450
US-PATENT-CLASS-285-18 ..... c15 N72-20445
US-PATENT-CLASS-285-24 ..... c15 N71-10782
US-PATENT-CLASS-285-27 ..... c15 N70-41808
US-PATENT-CLASS-285-33 ..... c15 N72-25450
US-PATENT-CLASS-285-38 ..... c15 N71-24903
US-PATENT-CLASS-285-45 ..... c15 N71-28937
US-PATENT-CLASS-285-114 ..... c37 N75-19686
US-PATENT-CLASS-285-226 ..... c37 N75-19686
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US-PATENT-CLASS-285-265 ..... c37 N76-14460
US-PATENT-CLASS-285-314 ..... c15 N71-24903
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US-PATENT-CLASS-285-317 ..... c15 N71-24903
US-PATENT-CLASS-285-331 ..... c15 N70-41629
US-PATENT-CLASS-285-345 ..... c15 N72-20445
US-PATENT-CLASS-285-406 ..... c15 N71-24903
US-PATENT-CLASS-285-410 ..... c05 N72-11085
US-PATENT-CLASS-287-54A c11 N72-25287
US-PATENT-CLASS-287-85R c15 N73-12488
US-PATENT-CLASS-287-92 ..... c31 N73-32749
US-PATENT-CLASS-287-119 ..... c15 N70-41829
US-PATENT-CLASS-287-189.36 ..... c15 N71-10795
US-PATENT-CLASS-287-189.365 ..... c15 N71-26312
US-PATENT-CLASS-290-40 ..... c03 N71-11057
US-PATENT-CLASS-290-52 ..... c37 N77-32500

US-PATENT-CLASS-290-52 ..... c37 N77-32501
US-PATENT-CLASS-292-110 ..... c37 N77-32499
US-PATENT-CLASS-294-1R c35 N76-16392
US-PATENT-CLASS-294-15 ..... c15 N71-29133
US-PATENT-CLASS-294-19R c35 N76-16392
US-PATENT-CLASS-294-83 ..... c15 N71-24897
US-PATENT-CLASS-294-86.33 ..... c37 N75-33395
US-PATENT-CLASS-294-116 ..... c37 N75-33395
US-PATENT-CLASS-297-68 ..... c05 N71-12343
US-PATENT-CLASS-297-68 ..... c05 N72-11085
US-PATENT-CLASS-297-216 ..... c05 N70-35152
US-PATENT-CLASS-297-232 ..... c05 N72-11085
US-PATENT-CLASS-297-365 ..... c05 N71-12341
US-PATENT-CLASS-297-385 ..... c05 N75-25915
US-PATENT-CLASS-297-386 ..... c15 N73-30460
US-PATENT-CLASS-297-388 ..... c05 N75-25915
US-PATENT-CLASS-297-389 ..... c05 N75-25915
US-PATENT-CLASS-299-67 ..... c46 N74-23068
US-PATENT-CLASS-299-86 ..... c46 N74-23069
US-PATENT-CLASS-301-5P c37 N74-18125
US-PATENT-CLASS-305-35EB c11 N73-26238
US-PATENT-CLASS-305-39 ..... c11 N73-26238
US-PATENT-CLASS-307-18 ..... c03 N73-31988
US-PATENT-CLASS-307-18 ..... c33 N74-34638
US-PATENT-CLASS-307-28 ..... c03 N73-31988
US-PATENT-CLASS-307-29 ..... c03 N73-31988
US-PATENT-CLASS-307-35 ..... c33 N74-34638
US-PATENT-CLASS-307-38 ..... c03 N73-31988
US-PATENT-CLASS-307-53 ..... c10 N71-26626
US-PATENT-CLASS-307-64 ..... c33 N77-30365
US-PATENT-CLASS-307-81 ..... c09 N72-17157
US-PATENT-CLASS-307-83 ..... c09 N72-25262
US-PATENT-CLASS-307-88 ..... c08 N70-34743
US-PATENT-CLASS-307-88 ..... c09 N70-38604
US-PATENT-CLASS-307-88 ..... c09 N71-24803
US-PATENT-CLASS-307-88 ..... c09 N71-26000
US-PATENT-CLASS-307-88.3 ..... c09 N72-25258
US-PATENT-CLASS-307-88.5 ..... c09 N70-34819
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US-PATENT-CLASS-307-88.5 ..... c09 N71-10673
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US-PATENT-CLASS-307-88.5 ..... c10 N71-16042
US-PATENT-CLASS-307-88.5 ..... c10 N71-28739
US-PATENT-CLASS-307-88MP c09 N72-22197
US-PATENT-CLASS-307-92 ..... c09 N72-27227
US-PATENT-CLASS-307-103 ..... c09 N72-25262
US-PATENT-CLASS-307-104 ..... c09 N71-24892
US-PATENT-CLASS-307-106 ..... c09 N69-21468
US-PATENT-CLASS-307-118 ..... c09 N72-27227
US-PATENT-CLASS-307-126 ..... c14 N71-27407
US-PATENT-CLASS-307-127 ..... c33 N74-14956
US-PATENT-CLASS-307-136 ..... c09 N69-27500
US-PATENT-CLASS-307-141.8 ..... c03 N72-25020
US-PATENT-CLASS-307-149 ..... c09 N71-13486
US-PATENT-CLASS-307-149 ..... c54 N75-12616
US-PATENT-CLASS-307-157 ..... c16 N73-32391
US-PATENT-CLASS-307-204 ..... c35 N75-30504
US-PATENT-CLASS-307-205 ..... c33 N75-14957
US-PATENT-CLASS-307-206 ..... c10 N72-22236
US-PATENT-CLASS-307-207 ..... c08 N71-29034
US-PATENT-CLASS-307-207 ..... c09 N73-13209
US-PATENT-CLASS-307-208 ..... c33 N75-14957
US-PATENT-CLASS-307-211 ..... c35 N75-30504
US-PATENT-CLASS-307-215 ..... c10 N71-28860
US-PATENT-CLASS-307-215 ..... c09 N71-29139
US-PATENT-CLASS-307-215 ..... c10 N72-22236
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US-PATENT-CLASS-307-216 ..... c08 N71-18751
US-PATENT-CLASS-307-219 ..... c35 N75-30504
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US-PATENT-CLASS-307-221R c33 N76-14373
US-PATENT-CLASS-307-222 ..... c09 N69-27463
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US-PATENT-CLASS-307-223 ..... c09 N72-17157
US-PATENT-CLASS-307-223B c09 N72-22201
US-PATENT-CLASS-307-225R c33 N74-10223
US-PATENT-CLASS-307-225R c33 N75-31330
US-PATENT-CLASS-307-225R c33 N77-24375
US-PATENT-CLASS-307-227 ..... c09 N72-17157
US-PATENT-CLASS-307-227 ..... c33 N75-19522
US-PATENT-CLASS-307-229 ..... c09 N71-12520
US-PATENT-CLASS-307-229 ..... c09 N72-23173
US-PATENT-CLASS-307-229 ..... c33 N75-18479
US-PATENT-CLASS-307-229 ..... c33 N77-17354
US-PATENT-CLASS-307-230 ..... c10 N72-16172
US-PATENT-CLASS-307-230 ..... c09 N72-21245
US-PATENT-CLASS-307-230 ..... c09 N73-20232
US-PATENT-CLASS-307-230 ..... c33 N74-32712
US-PATENT-CLASS-307-230 ..... c33 N77-17354
US-PATENT-CLASS-307-231 ..... c09 N72-22202
US-PATENT-CLASS-307-232 ..... c33 N77-21314
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US-PATENT-CLASS-307-233 ..... c10 N73-26229
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US-PATENT-CLASS-307-234 ..... c09 N71-27016
US-PATENT-CLASS-307-234 ..... c08 N71-29138
US-PATENT-CLASS-307-235 ..... c10 N71-19471
US-PATENT-CLASS-307-235 ..... c09 N71-23545
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US-PATENT-CLASS-307-235R c33 N75-18479
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US-PATENT-CLASS-307-243 ..... c09 N71-12516
US-PATENT-CLASS-307-243 ..... c08 N72-22162
US-PATENT-CLASS-307-243 ..... c33 N74-22814
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US-PATENT-CLASS-307-247 ..... c09 N72-22202
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US-PATENT-CLASS-307-252 ..... c09 N71-12514
US-PATENT-CLASS-307-252F c09 N72-17153
US-PATENT-CLASS-307-252J c09 N72-17153
US-PATENT-CLASS-307-252J c09 N72-22201
US-PATENT-CLASS-307-252K c09 N72-22201
US-PATENT-CLASS-307-252L c33 N74-27682
US-PATENT-CLASS-307-252N c09 N72-23171
US-PATENT-CLASS-307-252Q c33 N74-27682
US-PATENT-CLASS-307-252R c09 N72-23171
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US-PATENT-CLASS-307-254 ..... c09 N72-22200
US-PATENT-CLASS-307-255 ..... c33 N76-31410
US-PATENT-CLASS-307-257 ..... c09 N72-21247
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US-PATENT-CLASS-307-259 ..... c09 N72-23171
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US-PATENT-CLASS-307-261 ..... c09 N71-33109
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US-PATENT-CLASS-307-262 ..... c09 N72-22197
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US-PATENT-CLASS-307-273 ..... c09 N71-27016
US-PATENT-CLASS-307-273 ..... c09 N71-28468
US-PATENT-CLASS-307-273 ..... c10 N71-28860
US-PATENT-CLASS-307-273 ..... c09 N71-29139
US-PATENT-CLASS-307-273 ..... c10 N72-20221
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US-PATENT-CLASS-307-299 ..... c26 N72-21701
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US-PATENT-CLASS-307-322 ..... c10 N72-22236
US-PATENT-CLASS-307-323 ..... c10 N72-22236
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US-PATENT-CLASS-308-2A c15 N73-12488
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US-PATENT-CLASS-308-191 ..... c37 N74-21064
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US-PATENT-CLASS-308-193 ..... c15 N73-30458
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US-PATENT-CLASS-310-4 ..... c03 N69-39898
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US-PATENT-CLASS-310-4B c33 N74-27683
US-PATENT-CLASS-310-4E c73 N77-18891
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US-PATENT-CLASS-310-83 ..... c15 N72-25456
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US-PATENT-CLASS-310-101 ..... c15 N71-24696
US-PATENT-CLASS-310-111 ..... c33 N77-26387
US-PATENT-CLASS-310-168 ..... c09 N71-25999
US-PATENT-CLASS-310-168 ..... c33 N77-26387
US-PATENT-CLASS-310-254 ..... c09 N71-25999
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US-PATENT-CLASS-315-5.35 ..... c33 N74-10195
US-PATENT-CLASS-315-5.38 ..... c09 N73-13208
US-PATENT-CLASS-315-5.38 ..... c33 N74-10195
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US-PATENT-CLASS-315-25 ..... c10 N72-20225
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US-PATENT-CLASS-315-30R c10 N72-31273
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US-PATENT-CLASS-317-DIG.6 ..... c10 N73-26228
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US-PATENT-CLASS-317-234D c14 N72-31446
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US-PATENT-CLASS-317-234F c33 N74-12951
US-PATENT-CLASS-317-234G c14 N72-31446
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US-PATENT-CLASS-317-234J c26 N72-25679
US-PATENT-CLASS-317-234L c09 N73-27150
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US-PATENT-CLASS-317-235K c09 N73-15235
US-PATENT-CLASS-317-235M c14 N72-31446
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US-PATENT-CLASS-321-19 ..... c09 N72-22196
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US-PATENT-CLASS-321-25 ..... c09 N72-22196
US-PATENT-CLASS-321-45 ..... c09 N71-24800
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US-PATENT-CLASS-321-45ER c09 N72-25252
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US-PATENT-CLASS-323-DIG.1 ..... c09 N72-25249
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US-PATENT-CLASS-323-106 ..... c33 N74-22885
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US-PATENT-CLASS-323-128 ..... c33 N74-22885
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US-PATENT-CLASS-324-DIG.1 ..... c33 N75-25041
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US-PATENT-CLASS-324-0.5 ..... c14 N71-26266
US-PATENT-CLASS-324-5 ..... c14 N71-28991
US-PATENT-CLASS-324-20R c09 N72-23172

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US-PATENT-CLASS-324-29.5 ..... c44 N74-27519
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US-PATENT-CLASS-324-30R c14 N73-20478
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US-PATENT-CLASS-324-62R c14 N73-30388
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US-PATENT-CLASS-324-77R c10 N73-25240
US-PATENT-CLASS-324-78D c09 N72-25257
US-PATENT-CLASS-324-78D c52 N74-12778
US-PATENT-CLASS-324-78E c14 N73-24473
US-PATENT-CLASS-324-78J c10 N73-25240
US-PATENT-CLASS-324-78J c33 N75-19515
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US-PATENT-CLASS-324-79R c14 N72-27408

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US-PATENT-CLASS-324-158R c76 N76-20994
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US-PATENT-CLASS-324-165 ..... c35 N77-30436
US-PATENT-CLASS-324-174 ..... c35 N77-30436
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US-PATENT-CLASS-328-167 ..... c09 N73-20231
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US-PATENT-CLASS-328-171 ..... c10 N71-24844
US-PATENT-CLASS-328-172 ..... c32 N74-19788
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US-PATENT-CLASS-328-187 ..... c10 N73-20254
US-PATENT-CLASS-328-189 ..... c14 N72-27408
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US-PATENT-CLASS-329-122 ..... c32 N77-24331
US-PATENT-CLASS-329-124 ..... c33 N77-14334
US-PATENT-CLASS-329-126 ..... c33 N74-12887
US-PATENT-CLASS-329-140 ..... c07 N71-28583

US-PATENT-CLASS-329-145 ..... c07 N71-33696
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US-PATENT-CLASS-329-162 ..... c07 N72-20141
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US-PATENT-CLASS-329-204 ..... c33 N75-19520
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US-PATENT-CLASS-330-4.3 ..... c36 N75-27364
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US-PATENT-CLASS-330-10 ..... c33 N74-14939
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US-PATENT-CLASS-330-11 ..... c10 N71-33129
US-PATENT-CLASS-330-11 ..... c09 N72-17156
US-PATENT-CLASS-330-12 ..... c10 N72-33230
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US-PATENT-CLASS-330-13 ..... c33 N75-30428
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US-PATENT-CLASS-330-16 ..... c10 N71-33129
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US-PATENT-CLASS-330-24 ..... c33 N75-30429
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US-PATENT-CLASS-330-28 ..... c33 N74-21851
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US-PATENT-CLASS-330-70R c09 N72-21245
US-PATENT-CLASS-330-80T c09 N73-20232
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US-PATENT-CLASS-330-107 ..... c10 N72-17172
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US-PATENT-CLASS-331-177V c33 N77-17351
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US-PATENT-CLASS-332-30V c33 N77-17351
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US-PATENT-CLASS-333-17 ..... c44 N74-19870
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US-PATENT-CLASS-333-73S c09 N73-26195
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US-PATENT-CLASS-333-76 ..... c32 N77-18307
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US-PATENT-CLASS-333-79 ..... c09 N72-25256
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US-PATENT-CLASS-333-98P c09 N72-29172
US-PATENT-CLASS-333-98R c07 N72-25170
US-PATENT-CLASS-333-98R c09 N72-29172
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US-PATENT-CLASS-335-300 ..... c09 N70-41929
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US-PATENT-CLASS-336-60 ..... c09 N72-27226
US-PATENT-CLASS-336-178 ..... c09 N72-17154
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US-PATENT-CLASS-337-121 ..... c09 N71-29035
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US-PATENT-CLASS-338-28 ..... c35 N77-24454
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US-PATENT-CLASS-338-82 ..... c09 N71-20842
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US-PATENT-CLASS-339-17R c15 N71-29133
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US-PATENT-CLASS-339-143R c09 N72-25256
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US-PATENT-CLASS-339-218M c09 N72-28225
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US-PATENT-CLASS-339-252R c52 N77-14738
US-PATENT-CLASS-339-275R c33 N76-16332
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US-PATENT-CLASS-339-276T c09 N72-20200
US-PATENT-CLASS-339-278M c15 N72-17455
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US-PATENT-CLASS-340-12R c35 N74-16135
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US-PATENT-CLASS-340-27NA c21 N73-13643
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US-PATENT-CLASS-340-146.1AQ c08 N73-12177
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US-PATENT-CLASS-340-146.3Q c43 N77-10584
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US-PATENT-CLASS-340-173LM c60 N74-12888
US-PATENT-CLASS-340-173LS c08 N72-21198
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US-PATENT-CLASS-340-174CS c08 N72-21199
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US-PATENT-CLASS-340-227 ..... c14 N71-27186
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US-PATENT-CLASS-340-237S c45 N76-17656
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US-PATENT-CLASS-425-28B c31 N74-32917
US-PATENT-CLASS-425-35 ..... c31 N74-32917
US-PATENT-CLASS-425-77 ..... c15 N72-20446
US-PATENT-CLASS-425-113 ..... c15 N73-13464
US-PATENT-CLASS-425-128 ..... c31 N74-32920
US-PATENT-CLASS-425-133 ..... c15 N73-13464
US-PATENT-CLASS-425-176 ..... c15 N73-13464
US-PATENT-CLASS-425-405R c31 N75-13111
US-PATENT-CLASS-425-415 ..... c31 N74-32920
US-PATENT-CLASS-425-438 ..... c31 N75-13111
US-PATENT-CLASS-425-468 ..... c31 N75-13111
US-PATENT-CLASS-427-4 ..... c51 N77-27677
US-PATENT-CLASS-427-47 ..... c44 N77-32583
US-PATENT-CLASS-427-86 ..... c44 N76-28635
US-PATENT-CLASS-427-113 ..... c44 N76-28635
US-PATENT-CLASS-427-130 ..... c44 N77-32583
US-PATENT-CLASS-427-160 ..... c34 N77-18382
US-PATENT-CLASS-427-162 ..... c12 N76-15189
US-PATENT-CLASS-427-196 ..... c27 N76-15310
US-PATENT-CLASS-427-203 ..... c27 N76-16229
US-PATENT-CLASS-427-204 ..... c27 N76-16229
US-PATENT-CLASS-427-205 ..... c27 N76-16229
US-PATENT-CLASS-427-230 ..... c37 N76-31524
US-PATENT-CLASS-427-248 ..... c44 N76-28635
US-PATENT-CLASS-427-249 ..... c44 N76-28635
US-PATENT-CLASS-427-250 ..... c12 N76-15189
US-PATENT-CLASS-427-250 ..... c44 N76-28635
US-PATENT-CLASS-427-270 ..... c27 N76-16229
US-PATENT-CLASS-427-275 ..... c27 N76-16229
US-PATENT-CLASS-427-287 ..... c27 N76-16229
US-PATENT-CLASS-427-322 ..... c34 N77-18382
US-PATENT-CLASS-427-376 ..... c27 N76-22377
US-PATENT-CLASS-427-376 ..... c27 N76-23426
US-PATENT-CLASS-427-379 ..... c27 N76-22377
US-PATENT-CLASS-427-379 ..... c27 N76-23426
US-PATENT-CLASS-427-380 ..... c27 N76-22377
US-PATENT-CLASS-427-380 ..... c27 N76-23426
US-PATENT-CLASS-427-402 ..... c27 N76-22377
US-PATENT-CLASS-427-402 ..... c27 N76-23426
US-PATENT-CLASS-427-426 ..... c27 N76-15310
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US-PATENT-CLASS-428-77 ..... c27 N76-14264
US-PATENT-CLASS-428-109 ..... c27 N76-14264
US-PATENT-CLASS-428-117 ..... c37 N76-24575
US-PATENT-CLASS-428-141 ..... c24 N77-28225
US-PATENT-CLASS-428-161 ..... c24 N77-28225
US-PATENT-CLASS-428-212 ..... c27 N76-14264
US-PATENT-CLASS-428-214 ..... c27 N76-14264
US-PATENT-CLASS-428-301 ..... c24 N77-27188
US-PATENT-CLASS-428-303 ..... c27 N76-15310
US-PATENT-CLASS-428-328 ..... c24 N77-27188
US-PATENT-CLASS-428-332 ..... c27 N76-22377
US-PATENT-CLASS-428-332 ..... c27 N76-23426
US-PATENT-CLASS-428-368 ..... c24 N77-27188
US-PATENT-CLASS-428-412 ..... c27 N76-16230
US-PATENT-CLASS-428-413 ..... c27 N76-16230
US-PATENT-CLASS-428-416 ..... c27 N76-14264
US-PATENT-CLASS-428-418 ..... c24 N77-27188
US-PATENT-CLASS-428-421 ..... c34 N77-18382
US-PATENT-CLASS-428-425 ..... c24 N77-28225
US-PATENT-CLASS-428-428 ..... c27 N76-22377
US-PATENT-CLASS-428-428 ..... c27 N76-23426
US-PATENT-CLASS-428-447 ..... c27 N76-14264
US-PATENT-CLASS-428-447 ..... c27 N76-16230
US-PATENT-CLASS-428-450 ..... c27 N76-16229
US-PATENT-CLASS-428-450 ..... c27 N76-22377
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US-PATENT-CLASS-428-457 ..... c24 N77-27188
US-PATENT-CLASS-428-457 ..... c24 N77-28225
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US-PATENT-CLASS-428-461 ..... c34 N77-18382
US-PATENT-CLASS-428-469 ..... c27 N76-16229
US-PATENT-CLASS-428-474 ..... c34 N77-18382
US-PATENT-CLASS-428-538 ..... c27 N76-22377
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US-PATENT-CLASS-428-921 ..... c27 N76-16230
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US-PATENT-CLASS-429-34 ..... c44 N77-14581
US-PATENT-CLASS-429-105 ..... c44 N77-22606
US-PATENT-CLASS-429-107 ..... c44 N77-22606
US-PATENT-CLASS-429-190 ..... c44 N77-22606
US-PATENT-CLASS-431-4 ..... c44 N76-29704
US-PATENT-CLASS-431-9 ..... c23 N73-30665
US-PATENT-CLASS-431-11 ..... c44 N77-10636
US-PATENT-CLASS-431-41 ..... c44 N77-10636
US-PATENT-CLASS-431-116 ..... c44 N77-10636
US-PATENT-CLASS-431-162 ..... c44 N77-10636
US-PATENT-CLASS-431-163 ..... c44 N76-29704
US-PATENT-CLASS-431-170 ..... c44 N77-10636
US-PATENT-CLASS-431-173 ..... c23 N73-30665
US-PATENT-CLASS-431-202 ..... c25 N74-33378
US-PATENT-CLASS-431-210 ..... c44 N76-29704
US-PATENT-CLASS-431-352 ..... c28 N71-28915
US-PATENT-CLASS-526-1 ..... c27 N76-24405
US-PATENT-CLASS-526-255 ..... c27 N76-24405
US-PATENT-CLASS-536-56 ..... c27 N77-30236
US-PATENT-CLASS-536-58 ..... c27 N77-30236
US-PATENT-CLASS-536-84 ..... c27 N77-30236
US-PATENT-CLASS-536-105 ..... c27 N77-30236
US-PATENT-CLASS-536-536-85 ..... c27 N77-30236
US-PATENT-CLASS-6554 ..... c35 N77-24455
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US-PATENT-DES-228,688 ..... c05 N74-10907

US-PATENT-RE-26,548 ..... c07 N71-12389
US-PATENT-RE-28,921 ..... c52 N76-30793

US-PATENT-2,837,706 ..... c15 N71-28952
US-PATENT-2,898,889 ..... c02 N71-29128

US-PATENT-2,903,307 ..... c15 N71-29136
US-PATENT-2,926,123 ..... c33 N71-29151
US-PATENT-2,934,331 ..... c15 N70-33382
US-PATENT-2,940,259 ..... c28 N70-33241
US-PATENT-2,944,316 ..... c15 N71-16076
US-PATENT-2,945,667 ..... c15 N70-33376
US-PATENT-2,956,772 ..... c33 N71-29152
US-PATENT-2,960,002 ..... c14 N70-41946
US-PATENT-2,971,837 ..... c17 N70-33283
US-PATENT-2,974,925 ..... c28 N70-33372
US-PATENT-2,984,735 ..... c11 N70-33329
US-PATENT-2,991,671 ..... c15 N70-33330
US-PATENT-2,991,961 ..... c02 N70-33332
US-PATENT-2,996,212 ..... c31 N71-17680
US-PATENT-2,997,274 ..... c28 N71-29154
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US-PATENT-3,001,395 ..... c14 N70-33386
US-PATENT-3,001,739 ..... c03 N70-33343
US-PATENT-3,004,189 ..... c37 N75-29426
US-PATENT-3,004,735 ..... c14 N70-33322
US-PATENT-3,005,081 ..... c09 N70-33312
US-PATENT-3,005,339 ..... c11 N70-33287
US-PATENT-3,008,229 ..... c15 N70-33311
US-PATENT-3,010,372 ..... c15 N70-33180
US-PATENT-3,011,760 ..... c15 N70-33226
US-PATENT-3,012,400 ..... c28 N70-33374
US-PATENT-3,012,407 ..... c15 N70-33323
US-PATENT-3,016,693 ..... c28 N70-33356
US-PATENT-3,016,863 ..... c12 N70-33305
US-PATENT-3,022,672 ..... c14 N70-34816
US-PATENT-3,024,659 ..... c14 N70-34820
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US-PATENT-3,028,126 ..... c21 N70-33279
US-PATENT-3,028,128 ..... c31 N70-33242
US-PATENT-3,035,333 ..... c28 N70-41818
US-PATENT-3,038,077 ..... c21 N70-33181
US-PATENT-3,038,175 ..... c05 N70-33285
US-PATENT-3,041,587 ..... c14 N70-33179
US-PATENT-3,041,924 ..... c14 N70-33254
US-PATENT-3,045,424 ..... c28 N70-40367
US-PATENT-3,049,876 ..... c28 N70-33284
US-PATENT-3,053,484 ..... c02 N70-33255
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US-PATENT-3,059,220 ..... c09 N70-33182
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US-PATENT-3,064,928 ..... c02 N70-33266
US-PATENT-3,067,573 ..... c28 N70-39899
US-PATENT-3,068,658 ..... c15 N70-34247
US-PATENT-3,069,123 ..... c14 N70-39898
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US-PATENT-3,070,349 ..... c28 N70-39895
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US-PATENT-3,077,599 ..... c07 N70-40202
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US-PATENT-3,083,611 ..... c21 N70-35427
US-PATENT-3,084,421 ..... c17 N70-38490
US-PATENT-3,085,165 ..... c09 N70-34819
US-PATENT-3,087,692 ..... c02 N70-34178
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US-PATENT-3,090,580 ..... c31 N70-37924
US-PATENT-3,093,000 ..... c15 N70-37925
US-PATENT-3,093,346 ..... c31 N70-37938
US-PATENT-3,098,630 ..... c02 N70-37939
US-PATENT-3,100,294 ..... c09 N70-38998
US-PATENT-3,100,990 ..... c14 N70-34813
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US-PATENT-3,104,082 ..... c02 N70-38011
US-PATENT-3,105,515 ..... c15 N70-38603
US-PATENT-3,106,603 ..... c09 N70-38201
US-PATENT-3,108,171 ..... c33 N70-34812
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US-PATENT-3,119,232 ..... c28 N70-37980
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US-PATENT-3,121,309 ..... c28 N70-35381
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US-PATENT-3,122,058 ..... c28 N70-38181
US-PATENT-3,122,885 ..... c28 N70-38710
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US-PATENT-3,127,157 ..... c15 N70-38225

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US-PATENT-3,128,845 ..... c15 N70-38601
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US-PATENT-3,132,903 ..... c15 N70-38620
US-PATENT-3,135,089 ..... c28 N70-38504
US-PATENT-3,135,090 ..... c28 N70-38505
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US-PATENT-3,137,082 ..... c09 N73-14215
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US-PATENT-3,144,999 ..... c02 N70-34856
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US-PATENT-3,149,897 ..... c09 N70-36494
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US-PATENT-3,152,344 ..... c05 N70-36493
US-PATENT-3,156,090 ..... c28 N70-37245
US-PATENT-3,157,529 ..... c18 N70-36400
US-PATENT-3,158,172 ..... c15 N70-34817
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US-PATENT-3,160,950 ..... c15 N70-36409
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US-PATENT-3,170,660 ..... c02 N70-36804
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US-PATENT-3,171,060 ..... c25 N70-33267
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US-PATENT-3,183,506 ..... c07 N70-36911
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US-PATENT-3,185,023 ..... c14 N70-34298
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US-PATENT-3,188,844 ..... c15 N70-34249
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US-PATENT-3,189,535 ..... c15 N70-34967
US-PATENT-3,189,726 ..... c33 N70-34545
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US-PATENT-3,189,864 ..... c09 N70-34596
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US-PATENT-3,191,379 ..... c27 N70-35534

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US-PATENT-3,192,730 ..... c06 N70-34946
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US-PATENT-3,211,414 ..... c15 N70-35407
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US-PATENT-3,212,259 ..... c28 N71-29153
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US-PATENT-3,215,842 ..... c16 N71-28963
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US-PATENT-3,217,624 ..... c14 N70-40273
US-PATENT-3,218,479 ..... c09 N70-40272
US-PATENT-3,218,547 ..... c09 N70-40123
US-PATENT-3,218,850 ..... c14 N70-40400
US-PATENT-3,219,250 ..... c15 N70-40204
US-PATENT-3,219,365 ..... c15 N71-28937
US-PATENT-3,219,997 ..... c08 N73-28045
US-PATENT-3,220,004 ..... c30 N70-40309
US-PATENT-3,221,547 ..... c14 N70-40201
US-PATENT-3,221,549 ..... c14 N70-40157
US-PATENT-3,223,374 ..... c15 N70-40156
US-PATENT-3,224,001 ..... c07 N70-40063
US-PATENT-3,224,173 ..... c15 N70-40062
US-PATENT-3,224,263 ..... c15 N70-40180
US-PATENT-3,224,336 ..... c30 N70-40353
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US-PATENT-3,228,558 ..... c14 N70-40233
US-PATENT-3,228,099 ..... c14 N70-40238
US-PATENT-3,228,102 ..... c14 N70-40239
US-PATENT-3,229,139 ..... c28 N70-39925
US-PATENT-3,229,155 ..... c25 N70-41628
US-PATENT-3,229,463 ..... c28 N70-39931
US-PATENT-3,229,568 ..... c14 N70-40003
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US-PATENT-3,229,884 ..... c15 N70-39924
US-PATENT-3,229,930 ..... c30 N70-40016
US-PATENT-3,230,053 ..... c26 N70-40015
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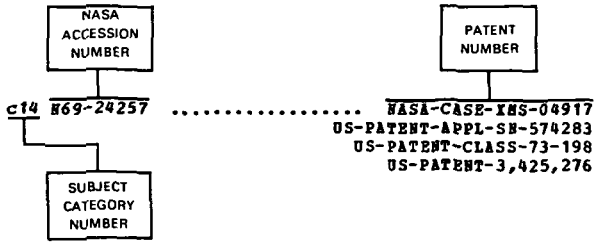

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c24 N72-11595 ..... NASA-CASE-MFS-20095
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US-PATENT-CLASS-60-202
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US-PATENT-CLASS-343-6.8R
US-PATENT-3,594,790

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US-PATENT-CLASS-325-13
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US-PATENT-CLASS-136-206
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US-PATENT-CLASS-343-DIG.3
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US-PATENT-CLASS-343-840
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US-PATENT-CLASS-356-152
US-PATENT-3,603,686

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US-PATENT-CLASS-136-133
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US-PATENT-3,607,401

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US-PATENT-CLASS-324-66
US-PATENT-CLASS-340-279
US-PATENT-3,609,740

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US-PATENT-CLASS-307-262
US-PATENT-CLASS-328-155
US-PATENT-3,614,475

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US-PATENT-3,608,409

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US-PATENT-CLASS-264-227
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US-PATENT-3,607,076

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US-PATENT-CLASS-23-253
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US-PATENT-CLASS-178-5.4
US-PATENT-CLASS-178-6.7
US-PATENT-3,603,722

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US-PATENT-3,603,798

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US-PATENT-CLASS-307-252J
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US-PATENT-CLASS-340-177
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US-PATENT-CLASS-330-35
US-PATENT-3,609,230

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US-PATENT-CLASS-307-227
US-PATENT-CLASS-328-186
US-PATENT-3,609,387

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US-PATENT-CLASS-330-176
US-PATENT-CLASS-333-70CR
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US-PATENT-CLASS-330-109
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US-PATENT-CLASS-356-209
US-PATENT-CLASS-356-244
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US-PATENT-CLASS-324-52
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US-PATENT-CLASS-188-129
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US-PATENT-CLASS-180-127
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US-PATENT-CLASS-308-9
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US-PATENT-CLASS-174-84
US-PATENT-CLASS-200-64
US-PATENT-CLASS-339-46
US-PATENT-CLASS-339-176M
US-PATENT-CLASS-339-278M
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US-PATENT-CLASS-106-299
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US-PATENT-CLASS-340-174CT
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US-PATENT-CLASS-136-81
US-PATENT-CLASS-136-166
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US-PATENT-CLASS-136-100R
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US-PATENT-CLASS-137-469
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US-PATENT-CLASS-325-38
US-PATENT-CLASS-325-58
US-PATENT-CLASS-325-321
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US-PATENT-CLASS-329-162
US-PATENT-CLASS-332-51W
US-PATENT-CLASS-333-73W
US-PATENT-CLASS-343-772
US-PATENT-CLASS-343-773
US-PATENT-CLASS-343-786
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US-PATENT-CLASS-235-92LG
US-PATENT-CLASS-235-92R
US-PATENT-CLASS-235-152
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US-PATENT-CLASS-340-347DD
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US-PATENT-CLASS-335-205
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US-PATENT-CLASS-330-30D
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US-PATENT-CLASS-324-132
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US-PATENT-CLASS-328-166
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US-PATENT-CLASS-343-12
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US-PATENT-CLASS-315-25
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c14 N72-20379 ..... NASA-CASE-GSC-10514-1
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US-PATENT-CLASS-95-18
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c14 N72-20394 ..... NASA-CASE-MSC-12448-1
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c15 N72-20442 ..... NASA-CASE-GSC-10607-1
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US-PATENT-CLASS-425-77
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c31 N72-20840 ..... NASA-CASE-MFS-20922
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c33 N72-20915 ..... NASA-CASE-NPO-10831
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US-PATENT-CLASS-165-133
US-PATENT-CLASS-165-155
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US-PATENT-CLASS-165-161
US-PATENT-CLASS-165-179
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US-PATENT-CLASS-156-3
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US-PATENT-CLASS-343-6.5R
US-PATENT-CLASS-343-100ST
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US-PATENT-CLASS-307-295
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US-PATENT-CLASS-346-29
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US-PATENT-CLASS-307-259
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US-PATENT-CLASS-331-23
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c12 N72-21310 ..... NASA-CASE-MFS-20829
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c14 N72-21405 ..... NASA-CASE-NPO-10832
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c14 N72-21408 ..... NASA-CASE-MSC-13332-1
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US-PATENT-CLASS-250-83.3R
US-PATENT-3,614,431
c14 N72-21409 ..... NASA-CASE-MSC-12105-1
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US-PATENT-CLASS-356-18
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c14 N72-21433 ..... NASA-CASE-ARC-10344-1
US-PATENT-APPL-SN-180962
c15 N72-21462 ..... NASA-CASE-NPO-10679
US-PATENT-APPL-SN-848282
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US-PATENT-CLASS-324-64
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US-PATENT-CLASS-141-23
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c26 N72-21701 ..... NASA-CASE-ERC-10119
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US-PATENT-CLASS-317-235R
US-PATENT-CLASS-331-107
US-PATENT-CLASS-332-51
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c03 N72-22042 ..... NASA-CASE-ERC-10747
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c05 N72-22092 ..... NASA-CASE-ARC-10275-1
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US-PATENT-CLASS-4-110
US-PATENT-CLASS-128-295
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US-PATENT-CLASS-179-15BL
US-PATENT-CLASS-307-243
US-PATENT-CLASS-307-251
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US-PATENT-CLASS-328-154
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US-PATENT-CLASS-228-57
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US-PATENT-CLASS-260-32.6N
US-PATENT-CLASS-260-33.4R
US-PATENT-CLASS-260-33.6R
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c35 N74-10415 ..... NASA-CASE-MFS-20335-1
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US-PATENT-3,765,229

c37 N74-10474 ..... NASA-CASE-LEW-10326-3
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US-PATENT-CLASS-277-27
US-PATENT-CLASS-277-96
US-PATENT-3,767,212

c31 N74-10476 ..... NASA-CASE-LEW-10518-3
US-PATENT-APPL-SN-394207

c26 N74-10521 ..... NASA-CASE-LEW-10805-3
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US-PATENT-APPL-SN-266928
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US-PATENT-CLASS-148-126
US-PATENT-3,765,958

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c08 N74-10942 ..... NASA-CASE-MSC-12394-1
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US-PATENT-3,771,037

c52 N74-10975 ..... NASA-CASE-MSC-13972-1
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c33 N74-11049 ..... NASA-CASE-HQN-10792-1
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US-PATENT-CLASS-321-18
US-PATENT-CLASS-321-45S
US-PATENT-CLASS-323-DIG.1
US-PATENT-CLASS-331-62
US-PATENT-CLASS-331-113A
US-PATENT-3,771,040

c33 N74-11050 ..... NASA-CASE-LAR-10868-1
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US-PATENT-CLASS-137-819
US-PATENT-CLASS-137-833
US-PATENT-CLASS-137-840
US-PATENT-3,770,021

c35 N74-11283 ..... NASA-CASE-NPO-11659-1
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US-PATENT-CLASS-179-100.2T
US-PATENT-CLASS-340-174.1L
US-PATENT-3,770,903

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US-PATENT-3,766,380

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US-PATENT-CLASS-219-107
US-PATENT-3,770,933

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US-PATENT-CLASS-29-498
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US-PATENT-CLASS-117-105.2
US-PATENT-3,769,689

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US-PATENT-CLASS-128-2.06F
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US-PATENT-CLASS-23-288J
US-PATENT-CLASS-55-510
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US-PATENT-3,771,959

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US-PATENT-CLASS-260-2.5L
US-PATENT-3,772,220

c32 N74-12843 ..... NASA-CASE-LAR-11170-1
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c33 N74-12887 ..... NASA-CASE-NPO-11905-1
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US-PATENT-CLASS-329-126
US-PATENT-3,772,272

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US-PATENT-3,772,691

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US-PATENT-CLASS-313-217
US-PATENT-CLASS-313-224
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US-PATENT-CLASS-317-234F
US-PATENT-CLASS-317-234M
US-PATENT-CLASS-317-234N
US-PATENT-CLASS-317-234R
US-PATENT-3,778,685

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US-PATENT-3,773,913

c35 N74-13129 ..... NASA-CASE-FRC-10051-1
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US-PATENT-CLASS-244-77B
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US-PATENT-CLASS-317-46
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US-PATENT-CLASS-317-48
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c37 N74-15128 ..... NASA-CASE-LEW-11087-2
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US-PATENT-APPL-SN-280390
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US-PATENT-CLASS-29-148.4B
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US-PATENT-CLASS-73-420
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US-PATENT-CLASS-75-226
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US-PATENT-CLASS-244-3.16
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US-PATENT-CLASS-250-214
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US-PATENT-CLASS-29-148.4B
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US-PATENT-CLASS-331-94.5S
US-PATENT-CLASS-350-6
US-PATENT-CLASS-356-4
US-PATENT-CLASS-356-5
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US-PATENT-CLASS-350-3.5
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US-PATENT-CLASS-73-71.5U
US-PATENT-CLASS-324-40
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US-PATENT-CLASS-252-8.1
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US-PATENT-CLASS-260-DIG.24
US-PATENT-CLASS-260-2.5FP
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US-PATENT-CLASS-179-100.2E
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US-PATENT-CLASS-346-33R
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US-PATENT-APPL-SN-350300
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US-PATENT-CLASS-249-184
US-PATENT-CLASS-425-128
US-PATENT-CLASS-425-415
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US-PATENT-APPL-SN-346483
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US-PATENT-CLASS-104-138R
US-PATENT-CLASS-238-134
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US-PATENT-APPL-SN-357126
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US-PATENT-CLASS-117-161UA
US-PATENT-CLASS-117-161UN
US-PATENT-CLASS-117-161UZ
US-PATENT-CLASS-204-177
US-PATENT-CLASS-210-500
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US-PATENT-CLASS-264-217
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US-PATENT-CLASS-138-114
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US-PATENT-CLASS-165-1
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US-PATENT-CLASS-165-105
US-PATENT-CLASS-220-15
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US-PATENT-CLASS-33-180R
US-PATENT-CLASS-350-292
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US-PATENT-CLASS-29-475
US-PATENT-3,842,485
c54 N75-12616 ..... NASA-CASE-MFS-21611-1

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US-PATENT-CLASS-307-149
US-PATENT-CLASS-308-174
US-PATENT-3,849,668

c74 N75-12732 ..... NASA-CASE-ARC-10448-2
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US-PATENT-CLASS-156-16
US-PATENT-CLASS-156-18
US-PATENT-CLASS-250-495
US-PATENT-3,847,689

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US-PATENT-CLASS-73-432PS
US-PATENT-3,842,656

c05 N75-12930 ..... NASA-CASE-ARC-10456-1
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US-PATENT-CLASS-244-75R
US-PATENT-CLASS-244-83R
US-PATENT-CLASS-416-25
US-PATENT-3,850,388

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US-PATENT-CLASS-108-136
US-PATENT-3,853,075

c09 N75-12969 ..... NASA-CASE-ARC-10710-1
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US-PATENT-CLASS-73-147
US-PATENT-3,853,003

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US-PATENT-3,851,250

c24 N75-13032 ..... NASA-CASE-LAR-10994-1
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US-PATENT-CLASS-29-604
US-PATENT-CLASS-75-200
US-PATENT-CLASS-340-174MA
US-PATENT-3,849,877

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US-PATENT-APPL-SN-379049
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US-PATENT-CLASS-249-144
US-PATENT-CLASS-249-145
US-PATENT-CLASS-425-DIG.43
US-PATENT-CLASS-425-405R
US-PATENT-CLASS-425-438
US-PATENT-CLASS-425-468
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US-PATENT-CLASS-318-649
US-PATENT-CLASS-318-675
US-PATENT-3,851,238

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US-PATENT-APPL-SN-327969
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US-PATENT-CLASS-29-592
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US-PATENT-CLASS-317-235H
US-PATENT-CLASS-330-6
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US-PATENT-CLASS-29-497.5
US-PATENT-CLASS-29-504
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US-PATENT-CLASS-338-97
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US-PATENT-3,854,113

c37 N75-13266 ..... NASA-CASE-NPO-13281-1
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c37 N75-13268 ..... NASA-CASE-LAR-11643-1
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c51 N75-13502 ..... NASA-CASE-LAR-11074-1
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US-PATENT-CLASS-195-120
US-PATENT-CLASS-195-127
US-PATENT-3,850,754

c51 N75-13506 ..... NASA-CASE-ARC-10643-2
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c54 N75-13531 ..... NASA-CASE-LEW-11581-1
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US-PATENT-CLASS-128-2.05P
US-PATENT-3,850,169

c60 N75-13539 ..... NASA-CASE-ARC-10466-1
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US-PATENT-CLASS-235-197
US-PATENT-CLASS-324-77B
US-PATENT-3,851,162

c75 N75-13625 ..... NASA-CASE-MFS-22145-1
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US-PATENT-CLASS-313-63
US-PATENT-CLASS-315-111
US-PATENT-CLASS-328-233
US-PATENT-3,854,097

c23 N75-14834 ..... NASA-CASE-MSC-13540-2
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US-PATENT-APPL-SN-178771
US-PATENT-CLASS-106-13
US-PATENT-CLASS-106-15R
US-PATENT-CLASS-106-287SB
US-PATENT-CLASS-117-124F
US-PATENT-CLASS-117-135.5
US-PATENT-CLASS-252-70
US-PATENT-CLASS-252-549
US-PATENT-3,856,534

c24 N75-14839 ..... NASA-CASE-LEW-11484-2
US-PATENT-APPL-SN-531568

c25 N75-14844 ..... NASA-CASE-NPO-12130-1
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US-PATENT-CLASS-23-230B
US-PATENT-CLASS-23-253R
US-PATENT-3,856,471

c33 N75-14957 ..... NASA-CASE-MSC-14240-1
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US-PATENT-CLASS-307-208
US-PATENT-3,857,045

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US-PATENT-CLASS-356-4
US-PATENT-3,857,031

c36 N75-15028 ..... NASA-CASE-MFS-21244-1
US-PATENT-APPL-SN-350249
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US-PATENT-CLASS-356-28
US-PATENT-CLASS-356-103
US-PATENT-3,856,402

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US-PATENT-CLASS-117-97
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US-PATENT-CLASS-332-7.5
US-PATENT-3,859,119

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US-PATENT-CLASS-137-505.42
US-PATENT-3,856,042

c52 N75-15270 ..... NASA-CASE-NPO-12119-1
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US-PATENT-3,849,554

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US-PATENT-CLASS-272-1R
US-PATENT-CLASS-272-57A

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US-PATENT-CLASS-343-9
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US-PATENT-CLASS-343-100ST
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US-PATENT-CLASS-318-231
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US-PATENT-CLASS-117-93.3
US-PATENT-CLASS-117-106A
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US-PATENT-CLASS-156-99
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US-PATENT-CLASS-328-58
US-PATENT-CLASS-328-115
US-PATENT-CLASS-328-151
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US-PATENT-APPL-SN-436315
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US-PATENT-CLASS-29-196.6
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US-PATENT-CLASS-331-78
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US-PATENT-CLASS-235-92R
US-PATENT-CLASS-235-92T
US-PATENT-CLASS-235-92VA
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US-PATENT-APPL-SN-462844
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US-PATENT-CLASS-329-204
US-PATENT-CLASS-332-47
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US-PATENT-CLASS-318-167
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US-PATENT-CLASS-318-183
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c34 N75-19580 ..... NASA-CASE-LEW-12441-1
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c35 N75-19611 ..... NASA-CASE-LAR-11071-1
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US-PATENT-CLASS-417-138
US-PATENT-CLASS-417-395
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US-PATENT-CLASS-356-189
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c35 N75-19628 ..... NASA-CASE-NPO-13614-1
US-PATENT-APPL-SN-553209
c36 N75-19652 ..... NASA-CASE-NPO-13131-1
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US-PATENT-CLASS-250-578
US-PATENT-CLASS-315-169R
US-PATENT-CLASS-340-173LS
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c36 N75-19653 ..... NASA-CASE-HQN-10844-1
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US-PATENT-CLASS-331-94.5P
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US-PATENT-CLASS-204-298
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US-PATENT-CLASS-165-111
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c37 N75-22748 ..... NASA-CASE-NPO-13619-1
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c35 N75-23910 ..... NASA-CASE-NPO-13327-1
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US-PATENT-CLASS-128-DIG.4
US-PATENT-CLASS-128-2.06B
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NASA-CASE-NPO-13215-1
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US-PATENT-CLASS-350-3.5

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c37 N75-25185 ..... NASA-CASE-NPO-13360-1
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US-PATENT-CLASS-250-566
US-PATENT-CLASS-350-311
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US-PATENT-APPL-SN-394206
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US-PATENT-CLASS-357-29
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US-PATENT-CLASS-357-52
US-PATENT-CLASS-357-54
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US-PATENT-CLASS-244-13
US-PATENT-CLASS-244-15
US-PATENT-CLASS-244-42DA
US-PATENT-CLASS-244-55
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US-PATENT-CLASS-297-388
US-PATENT-CLASS-297-389
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US-PATENT-CLASS-118-49.1
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US-PATENT-CLASS-343-112D
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US-PATENT-CLASS-235-181
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US-PATENT-CLASS-315-387
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US-PATENT-CLASS-324-58.5C
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US-PATENT-CLASS-233-25
US-PATENT-CLASS-233-46
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c52 N77-30737 ..... NASA-CASE-LEW-12723-1
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c08 N77-31176 ..... NASA-CASE-LAR-11868-2
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US-PATENT-CLASS-260-2.5AM
US-PATENT-CLASS-260-2.5AY
US-PATENT-CLASS-260-77.5AP
US-PATENT-4,039-489

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US-PATENT-4,040,041

c33 N77-31407 ..... NASA-CASE-MFS-22880-2
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US-PATENT-CLASS-123-59E
US-PATENT-CLASS-123-119A
US-PATENT-CLASS-123-122AB
US-PATENT-4,041,910

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US-PATENT-CLASS-136-89P
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c44 N77-31610 ..... NASA-CASE-MFS-23518-1
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c44 N77-31611 ..... NASA-CASE-MFS-23518-2
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c45 N77-31668 ..... NASA-CASE-MSC-16299-1
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US-PATENT-CLASS-416-241A
US-PATENT-4,045,149

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US-PATENT-CLASS-204-158R
US-PATENT-CLASS-204-162R
US-PATENT-CLASS-250-527
US-PATENT-4,045,359

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US-PATENT-CLASS-148-32
US-PATENT-4,045,255

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US-PATENT-4,046,560

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US-PATENT-CLASS-156-663
US-PATENT-4,046,619

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US-PATENT-CLASS-343-5DP
US-PATENT-CLASS-343-10
US-PATENT-CLASS-343-100CL
US-PATENT-4,045,795

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US-PATENT-4,046,190

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c34 N77-32435 ..... NASA-CASE-LEW-12508-2
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US-PATENT-4,045,247

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US-PATENT-4,045,728

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US-PATENT-CLASS-250-288
US-PATENT-4,046,012

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c36 N77-32478 ..... NASA-CASE-LEW-12164-1
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US-PATENT-4,043,674

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US-PATENT-CLASS-292-110
US-PATENT-4,045,063

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US-PATENT-CLASS-308-72
US-PATENT-CLASS-308-195
US-PATENT-4,046,434

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c44 N77-32580 ..... NASA-CASE-NPO-13675-1
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US-PATENT-4,044,821

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Section 2 - Indexes

16 Abstract

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